Периферийные устройства для промышленных мониторов

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Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Саранск (8342)22-96-24 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Сыктывкар (8212)25-95-17 Тамбов (4752)50-40-97 Тверь (4822)63-31-35

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эл.почта: phb@nt-rt.ru || сайт: https://pepperl-fuchs.nt-rt.ru/



RFID Reader for Zone 2/22 RFID20-*

- Flexible RFID (125 kHz and 13.56 MHz) reader with NFC capabilities
- Flush mountable for easy integration in VisuNet Systems
- Compatible with LogOnPlus software
- Provides acces to all standard USB operating modes as HID, USB-CCID und USB CDC

RFID Reader/Writer for LF, HF, NFC

Function

The RFDI20-* integrates RFID and NFC capabilities into a compact and flexible reader and allows users to read and write almost all common

worldwide 125 kHz and 13.56-MHz tags and/or labels.

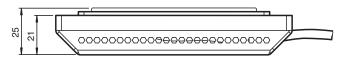
The RFID20-* is designed as an additional configurable accessory for the Pepperl+Fuchs Workstations but can be used as stand-alone RFID Reader/Writer as well.

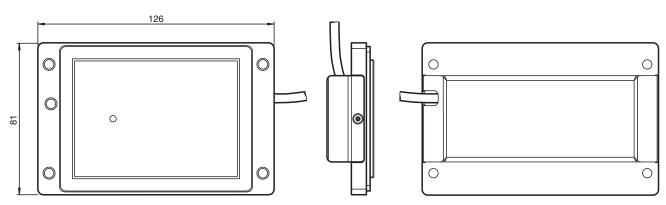
Function Principle

Example: RFID20-* integrated in the VisuNet FLX System



Dimensions





Technical Data

General specifications	
Туре	RFID Reader/Writer for LF, HF, NFC
Operating distance	LF and HF: Up to 76 mm / 3 inch, depending on environment and transponder
Supply	
Power supply	4.3 V - 5.5 V via USB; via generic interface (X2) 3.3 V \pm 5%Limited power source according to the safety norms listed in the respective declaration of conformity, short-circuit current < 8 A
Indicators/operating means	
Indicators	LED green: power on LED red flashing beeper/buzzer: read/write attempt performed
Electrical specifications	
Operation frequency	125 kHz (LF) / 13.56 MHz (HF)
Interface	
Interface type	USB
Directive conformity	
Explosion protection	
Directive 2014/34/EU	EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 EN IEC 60079-31:2024
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	RFID20-A-*NF-****-N**: EN 300 330 V2.1.1 EN 301 489-1 V1.9.2 EN 62368-1:2014+AC:2015-05+AC:2015-11 EN 50364:2010 EN 62479:2010 EN 55032:2015
	Additional standards: EN 301 489-1 V2.1 .1 EN 301 489-3 V2.1 .1 EN 62311:2008EN 62369-1:2009
	RFID20-B-*NF-****-N**: EN 300 330 V2.1.1 EN 301 489-1 V1.9.2 EN 62368-1:2014+AC:2015-05+AC:2015-11 EN 50364:2010 EN 62479:2010 EN 55032:2015

Additional standards: EN 301 489-1 V2.2.3 EN 301 489-3 V2.1 .1 EN 62369-1:2009 EN 62311:2008

Technica	al Data											
RoHS												
	.011/65/EU (Rd	oHS)		EN	IEC 630	000:2018						
Conformity	(***	,										
Degree of pr	rotection			incl	nt side: I uded fro kk side: I	ont foil	P66 with	included fro	ont foil, V	ith Ex-certific	ation: IP	66 with
Ambient con	ditions											
Ambient tem	perature			-20	60 °C	C (-4 140) °F)					
Storage tem	•					C (-4 149						
Relative hun						•		t 40°C (non-	condens	ing) according	a to EN6	0068-2-78
	pecifications			ma	t. ICIALIV	Chambany	30 /0 a	1 40 0 (11011	Condens	ing) according	g to LIVO	0000 2 70
	pecifications			חבו	T/				-:-I-			
Material						sing, anodiz	zea aiu	minum back	side			
Mass				300	_		_					
Dimensions						31 mm x 25	mm					
Cut out dime	ensions			82 r	nm x 57	7 mm						
Cable length	1			1.8	m / 0.6 r	m						
Type Co	de											
RFID20-* RFID20		(1)-	(2	2)		(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model			(2	2)		(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20-	- RFID reader Zo		(2	2)		(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20-	- RFID reader Zo	one 2/22				(3)-		(4)	1	(5)-		(6)
RFID20-* RFID20 Model RFID20- I	- RFID reader Zo	one 2/22 FWN4 MultiT	Fech 3 M LF	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20- (1)- A- B-	- RFID reader Zo Reader ElatecReader 1 ElatecReader 1	one 2/22 FWN4 MultiT FWN4 MultiT	Fech 3 M LF	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20- I (1)- A- I B- I	RFID reader Zo Reader ElatecReader 1 ElatecReader 1 Explosion pro	one 2/22 FWN4 MultiT FWN4 MultiT	Fech 3 M LF	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20- I (1)- A- I B- I (2) N I	RFID reader Zone Reader ElatecReader TelatecReader Telatec	TWN4 MultiT	Fech 3 M LF Fech 3 LEG	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20- I (1)- A- I B- I (2) N I	RFID reader Zo Reader ElatecReader 1 ElatecReader 1 Explosion pro	TWN4 MultiT	Fech 3 M LF Fech 3 LEG	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20- I (1)- A- I B- I (2) N I R A	RFID reader Zone Reader ElatecReader TelatecReader Telatec	TWN4 MultiTTWN4 MultiTotection	Fech 3 M LF Fech 3 LEG	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20- Model RFID20- (1)- A- B- (2) N R (3)-	RFID reader Zone Reader ElatecReader TelatecReader Telatec	TWN4 MultiTTWN4 MultiTotection	Fech 3 M LF Fech 3 LEG	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20- I (1)- A- I B- I (2) N I R / (3)- NF- I	RFID reader Zor Reader ElatecReader T ElatecReader T Explosion pro Non-Ex ATEX Zone 2/2 Mounting opti Flush mount	TWN4 MultiTTWN4 MultiTotection	Fech 3 M LF Fech 3 LEG	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20 Model RFID20- I (1)- A- B- I (2) N R (3)- NF- (4)	RFID reader Zor Reader ElatecReader T ElatecReader T Explosion pro Non-Ex ATEX Zone 2/2	TWN4 MultiT TWN4 MultiT Twtection 22 (Self-Decl	Fech 3 M LF Fech 3 LEG laration)	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20- Model RFID20- I (1)- A- I B- I (2) N I R A (3)- NF- I (4) UA I	RFID reader Zone Reader ElatecReader TelatecReader Telatec	TWN4 MultiT TWN4 MultiT Twtection 22 (Self-Decl	Fech 3 M LF Fech 3 LEG laration)	HF	F	(3)-		(4)		(5)-		(6)
RFID20-* RFID20- Model RFID20- (1)- A- B- (2) N R (3)- NF- (4) UA [5)-	RFID reader Zo Reader ElatecReader T ElatecReader T Explosion pro Non-Ex ATEX Zone 2/2 Mounting opti Flush mount Interface USB with Type Cable length	TWN4 MultiTrWN4 MultiTrwn4 MultiTrection 22 (Self-Declarons	Fech 3 M LF Fech 3 LEGI laration)	FHF				(4)		(5)-		(6)
RFID20-* RFID20- Model RFID20- (1)- A- B- (2) N R (3)- NF- (4) UA (5)- 06-	RFID reader Zo Reader ElatecReader T ElatecReader T Explosion pro Non-Ex ATEX Zone 2/2 Mounting opti Flush mount Interface USB with Type Cable length Standard 0.6-m	TWN4 MultiTrWN4 MultiTrwn4 MultiTrection 22 (Self-Declarons A connector	Fech 3 M LF Fech 3 LEGI laration)	FHF IC M LF H			ng	(4)		(5)-		(6)
RFID20-* RFID20- Model RFID20- (1)- A- B- (2) N R (3)- NF- (4) UA (5)- 06-	RFID reader Zo Reader ElatecReader T ElatecReader T Explosion pro Non-Ex ATEX Zone 2/2 Mounting opti Flush mount Interface USB with Type Cable length	TWN4 MultiTrWN4 MultiTrwn4 MultiTrection 22 (Self-Declarons A connector	Fech 3 M LF Fech 3 LEGI laration)	FHF IC M LF H			ng	(4)		(5)-		(6)
RFID20-* RFID20- Model RFID20- I (1)- A- B- B- I (2) I N I R A (3)- I (4) I UA I (5)- 06- 3 18- I	RFID reader Zo Reader ElatecReader T ElatecReader T Explosion pro Non-Ex ATEX Zone 2/2 Mounting opti Flush mount Interface USB with Type Cable length Standard 0.6-m 1.8-m cable for	TWN4 MultiTrWN4 MultiTrwn4 MultiTrection 22 (Self-Declarons A connector	Fech 3 M LF Fech 3 LEGI laration)	FHF IC M LF H			ng	(4)		(5)-		(6)
RFID20-* RFID20- Model RFID20- (1)- A- B- (2) N R (3)- NF- (4) UA (5)- 06- 18- (6) NO	RFID reader Zor Reader ElatecReader T ElatecReader T Explosion pro Non-Ex ATEX Zone 2/2 Mounting opti Flush mount Interface USB with Type Cable length Standard 0.6-m	TWN4 MultiTrWN4 MultiTrWN4 MultiTrection 22 (Self-Declarons A connector a cable for in standalone	Fech 3 M LF Fech 3 LEGI laration) r stallation in application	FHF IC M LF H	FLX Sys		ng	(4)		(5)-		(6)

NO
XX
Evample:

Example:						
BFID20-	Δ-	N	NF-	UΔ	06-	N0



DC Power Supply PSU1100-J1-DC-N0

- Certified for ATEX and IECEx Zone 1/21
- Galvanic isolation between input and output
- Provides an output power up to 80 W at 24 V DC
- Fully IP66 rated

DC Power Supply





Function

The device is an apparatus certified for use in hazardous areas rated according to ATEX directive and IECEx Zones 1 and 21.

The device is a DC-DC power supply and supplies explosion protected equipment in the hazardous area. The device provides an output voltage of 24 V DC based on 18 V to 36 V DC input voltage.

The output power has a derating from 50 °C to 65 °C (80 W to 50 W).

The device is optimized for use with the following devices:

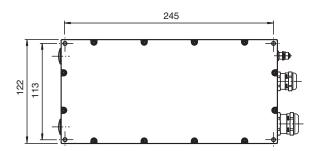
• Display Unit DPU1100-J1-*

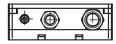
This Client Life TC (1400-14)

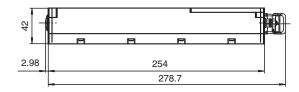
- Thin Client Unit TCU1100-J1-*
- PC Unit PCU 1100-J1-*

DC Power Supply PSU1100-J1-DC-N0

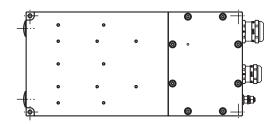
Dimensions











Technical Data

Supply	
Input voltage	18 36 V DC (SELV/PELV acc. IEC 60950-1)
Input current	max. 5.5 A/2.7 A
Output	
Output current	max. 3.3 A
Voltage	24 V DC (SELV)
Power	80 W with derating
Power dissipation	17 W at 80 W output power
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) ; EN 61000-6-4:2007+A1:2011
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Ambient conditions	
Operating temperature	-20 65 °C (-4 149 °F) with derating
Storage temperature	-20 65 °C (-4 149 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Mechanical specifications	
Core cross section	max. 2.5 mm ² (14 AWG)
Degree of protection	IP66
Material	

Release date: 2024-09-02 Date of issue: 2024-09-02 Filename: 271722-100001_eng.pdf

Technical Data	
Housing	anodized aluminum
Mass	approx. 2.5 kg
Dimensions	245 mm x 122 mm x 42 mm
Data for application in connection with haza	rdous areas
EU-type examination certificate	BVS 16 ATEX E 098 X
Marking	⑤ II 2G Ex eb q IIC T4 Gb⑥ II 2D Ex tb IIIC T85°C Db
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-31:2014
International approvals	
IECEx approval	IECEx BVS 16.0063X
Approved for	Ex eb q IIC T4 Gb Ex tb IIIC T85°C Db
Standards	IEC 60079-0:2011 IEC 60079-5:2015 IEC 60079-7:2015 IEC 60079-31:2013



DC Power Supply PSU1200-J2-DC-N0

- Certified for ATEX and IECEx Zone 2/22
- Galvanic isolation between input and output
- Provides an output power up to 80 W at 24 V DC
- Fully IP66 rated

DC Power Supply





Function

The device is an apparatus certified for use in hazardous area rated according to ATEX directive and IECEx Zones 2 and 22.

The device is a DC-DC power supply and supplies explosion-protected equipment in the hazardous area. The device provides an output voltage of 24 V DC based on 18 V to 36 V DC input voltage.

The output power has a derating from 50 °C to 65 °C (80 W to 50 W).

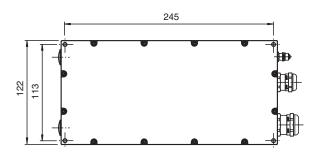
The device is optimized for use with the following devices:

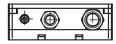
• Display Unit DPU1200-J2-*

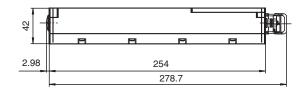
- Thin Client Unit TCU1200-J2-*
- PC Unit PCU1200-J2-*

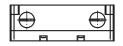
DC Power Supply PSU1200-J2-DC-N0

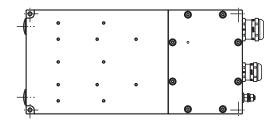
Dimensions











Technical Data

Supply	
Input voltage	18 36 V DC (SELV/PELV acc. IEC 60950-1)
Input current	max. 5.5 A/2.7 A
Output	
Output current	max. 3.3 A
Voltage	24 V DC (SELV)
Power	80 W with derating
Power dissipation	17 W at 80 W output power
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations); EN 61000-6-4:2007+A1:2011
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Ambient conditions	
Operating temperature	-20 65 °C (-4 149 °F) with derating
Storage temperature	-20 65 °C (-4 149 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Mechanical specifications	
Core cross section	max. 2.5 mm ² (14 AWG)
Degree of protection	IP66
Material	

Release date: 2024-09-02 Date of issue: 2024-09-02 Filename: 271722-100003_eng.pdf

Technical Data	
Housing	anodized aluminum
Mass	approx. 2.5 kg
Dimensions	245 mm x 122 mm x 42 mm
Data for application in connection with haza	rdous areas
EU-type examination certificate	BVS 16 ATEX E 097 X
Marking	⑤ II 3G Ex ec q IIC T4 Gc⑥ II 3D Ex tc IIIC T85°C Dc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-31:2014
International approvals	
IECEx approval	IECEx BVS 16.0063X
Approved for	Ex ec q IIC T4 Gc Ex tc IIIC T85°C Dc
Standards	IEC 60079-0:2011 IEC 60079-5:2015 IEC 60079-7:2015 IEC 60079-31:2013



AC Power Supply PSU1100-J1-AC-N0

- Certified for ATEX and IECEx Zone 1/21
- Galvanic isolation between input and output
- Provides an output power up to 80 W at 24 V DC
- Fully IP66 rated

AC Power Supply





Function

The device is an apparatus certified for use in explosion-hazardous areas rated according to ATEX directive and IECEx Zones 1 and 21. The device is an AC-DC power supply and supplies explosion protected equipment in the explosion-hazardous area. The device provides an output voltage of 24 V DC based on 115/230 V AC input voltage.

The output power has a derating from 50 °C to 65 °C (80 W to 50 W).

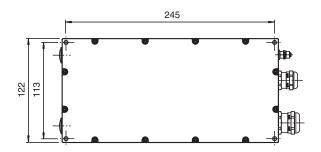
The device is optimized for use with the following devices:

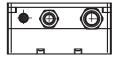
• Display Unit DPU1100-J1-*

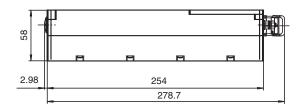
- Thin Client Unit TCU1100-J1-*
- PC Unit PCU1100-J1-*

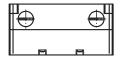
AC Power Supply PSU1100-J1-AC-N0

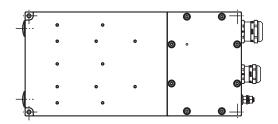
Dimensions











Technical Data

Supply	
Input voltage	115/230 V AC , 50/60 Hz
Input current	max. 1.5/0.7 A
Output	
Output current	max. 3.3 A
Voltage	24 V DC (SELV)
Power	80 W with derating
Power dissipation	15 W at 80 W output power
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations); EN 61000-6-4:2007+A1:2011
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Ambient conditions	
Operating temperature	-20 65 °C (-4 149 °F) with derating
Storage temperature	-20 65 °C (-4 149 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN 60068-2-78
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Mechanical specifications	
Core cross section	max. 2.5 mm² (14 AWG)
Degree of protection	IP66
Material	

Release date: 2024-09-02 Date of issue: 2024-09-02 Filename: 271722-100005_eng.pdf

Technical Data	
Housing	anodized aluminum
Mass	approx. 3.2 kg
Dimensions	245 mm x 122 mm x 58 mm
Data for application in connection with hazar	rdous areas
EU-type examination certificate	BVS 16 ATEX E 098 X
Marking	⑤ II 2G Ex eb q IIC T4 Gb⑥ II 2D Ex tb IIIC T85°C Db
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-31:2014
International approvals	
IECEx approval	IECEx BVS 16.0063X
Approved for	Ex eb q IIC T4 Gb Ex tb IIIC T85°C Db
Standards	IFC 60079-0:2011 IFC 60079-5:2015 IFC 60079-7:2015 IFC 60079-31:2013



AC Power Supply PSU1200-J2-AC-N0

- Certified for ATEX and IECEx Zone 2/22
- Galvanic isolation between input and output
- Provides an output power up to 80 W at 24 V DC
- Fully IP66 rated

AC Power Supply





Function

The device is an apparatus certified for use in hazardous areas rated according to ATEX directive and IECEx Zones 2 and 22.

The device is an AC-DC power supply and supplies explosion-protected equipment in the hazardous area. The device provides an output voltage of 24 V DC based on 110 V AC/230 V AC input voltage.

The output power has a derating from 50 °C to 65 °C (80 W to 50 W).

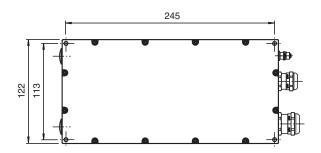
The device is optimized for use with the following devices:

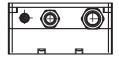
• Display Unit DPU1200-J2-*

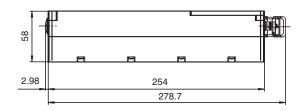
- Thin Client Unit TCU1200-J2-*
- PC Unit PCU1200-J2-*

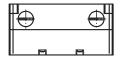
AC Power Supply PSU1200-J2-AC-N0

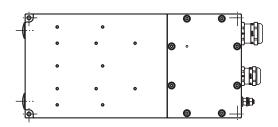
Dimensions











Technical Data

Supply	
Input voltage	115/230 V AC , 50/60 Hz
Input current	max. 1.5/0.7 A
Output	
Output current	max. 3.3 A
Voltage	24 V DC (SELV)
Power	80 W with derating
Power dissipation	15 W at 80 W output power
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) ; EN 61000-6-4:2007+A1:2011
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Ambient conditions	
Operating temperature	-20 65 °C (-4 149 °F) with derating
Storage temperature	-20 65 °C (-4 149 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN 60068-2-78
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Mechanical specifications	
Core cross section	max. 2.5 mm ² (14 AWG)
Degree of protection	IP66
Material	

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issue:
Date of
4-09-02
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date:
Release

Technical Data	
Housing	anodized aluminum
Mass	approx. 3.2 kg
Dimensions	245 mm x 122 mm x 58 mm
Data for application in connection with I	hazardous areas
EU-type examination certificate	BVS 16 ATEX E 097 X
Marking	☑ II 3G Ex ec q IIC T4 Gc☑ II 3D Ex tc IIIC T85°C Dc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-31:2014
International approvals	
IECEx approval	IECEx BVS 16.0063X
Approved for	Ex ec q IIC T4 Gc Ex tc IIIC T85°C Dc
Standards	IEC 60079-0:2011 IEC 60079-5:2015 IEC 60079-7:2015 IEC 60079-31:2013



Industrial Ethernet Media Converter SL-2ES-2SC

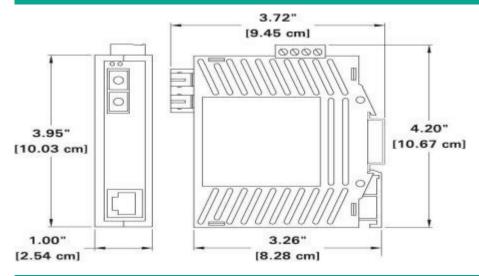
- Slim packaging fits on your DIN rail
- High performance and value
- Truly industrial hardened design
- Dual power inputs keeps you running
- UL/CSA, CE, Hazardous Locations (Zone 2) and Maritime rated
- Ultra-reliable 1,000,000+ hours MTBF
- Fiber multimode (mm) typical: 50 or 62.5/125 μm
- Fiber max. distance: (full duplex) 4 km (multimode)

Industrial Ethernet Media Converter

Function

The SL-2ES is an industrial Ethernet copper to fiber media converter that provides fast performance allowing for real-time operation. These ruggedized converters are industrial hardened to provide superior reliability. They require no user setup and immediately start operating as soon as you power them up.

Dimensions



Technical Data

Supply				
Input voltage	10 30 VDC (Redundant)			
Power consumption	2 W typical			
Indicators/operating means				
Input devices	fiber optic (multimode) SC connectors			
Directive conformity				
Electromagnetic compatibility	FCC part 15, ICES-003; EN61000-6-4, CE EN61000-6-2, CE			
Ambient conditions				
Operating temperature	-10 60 °C (14 140 °F)			
Storage temperature	-40 85 °C (-40 185 °F)			
Relative humidity	5 95 %, noncondensing			
Vibration resistance	IEC60068-2-6			
Mechanical specifications				

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Release

Technical Data	
	_
Degree of protection	IP30
Connection	SC type
Material	Case: UL94V0 Lexan
Mass	0.11 kg
Dimensions	see mechanical drawing
Mounting	DIN rail or direct panel mounting
Data for application in connection with haza	rdous areas
EU-type examination certificate	EN60079-15 (Zone 2, Category 3), CE
International approvals	
UL approval	UL 508/CSA C22.2/14, EN61010-1, CE UL 1604/CSA C22.2/213 (Class I, Div. 2)

Features

• Military-grade fiber optic single-mode cable for easy connectivity of Pepperl+Fuchs thin client / PC units

Application

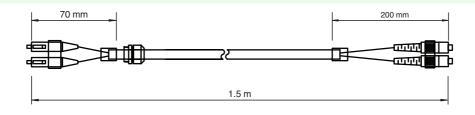
DATL-FO-SM-LC-SC-* cables allow plug-and-play fiber optic network connectivity to Pepperl+Fuchs thin client/PC units, even in hazardous locations.

The military-grade cables ensure full IP66 protection of the connection opening. The cable ends consist of an Ex e rated M16 cable gland and a duplex LC to duplex SC connector.



Mechanical specifications	
Connection	duplex LC to duplex SC with 1 M16 cable gland
Material	single-mode fiber optic , OS2 , 9/125 μm
Cable length	1.5 m

Dimensions



Features

• Military-grade fiber optic single-mode cable for easy connectivity of Pepperl+Fuchs thin client / PC units

Application

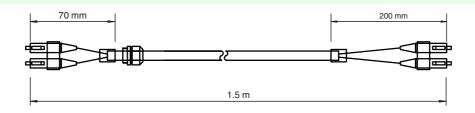
DATL-FO-SM-LC-LC-* cables allow plug-and-play fiber optic network connectivity to Pepperl+Fuchs thin client/PC units, even in hazardous locations.

The military-grade cables ensure full IP66 protection of the connection opening. The cable ends consist of an Ex e rated M16 cable gland and a duplex LC to duplex LC connector.



Mechanical specifications	
Connection	duplex LC to duplex LC with 1 M16 cable gland
Material	single-mode fiber optic , OS2 , 9/125 μm
Cable length	1.5 m

Dimensions



•

Raritan Dominion KVM-over-IP Switch DKX4-101

- Allows direct connection from a VisuNet Remote Monitor (with RM Shell 5.2 or newer) to a host system
- Supports concurrent remote and local access to an Operator Workstation

Raritan Dominion KVM-over-IP Switch

Technical Data Supply Input voltage 5 V DC Power supply 100 ... 240 V 50-60Hz, 12.5 W / 20 W max/operating Interface Front side: 1 x DC, 1x Ethernet, Serial Admin, 1x USB-B to Server, HDMI to Server Back side: HDMI out, USB K/M, Terminal Block. Factory Reset Button Interface type **Ambient conditions** Operating temperature 0 ... 55 °C (32 ... 131 °F) Relative humidity 20 % ... 80 % Mechanical specifications Connection Local connection: HDMI passthrough port, 2x USB-A port for keyboard and mouse control Remote connection: 1 Gigabit Ethernet (RJ-45) port IPv6/IPv4 dual stack, TCP/IP Mass 0.65 kg Dimensions 140 mm x 144 mm x 30 mm (l x w x h) Zero-U form factor; rack mountable vertically or horizontally (bracket kit included) Mounting **General information** Scope of delivery 1 locking power cord 1 HDMI cable 1 USB-B to USB-A cable 1 mounting bracket kit



Fiber Optic Multi-Mode Breakout Cable

DATL-FO-MM-*

- Military-grade fiber optic multi-mode cable for easy connectivity of Pepperl+Fuchs thin client / PC units
 Available with duplex LC to LC or LC to SC connectors

Fiber Optic Multi-Mode Breakout Cable

Function

DATL-FO-MM-* cables allow plug-and-play fiber optic network connectivity to Pepperl+Fuchs thin client/PC units, even in hazardous locations. The military-grade cables ensure full IP66 protection of the connection opening. The cable ends consist of an Ex e rated M16 cable gland and a duplex LC to duplex LC/SC connector.

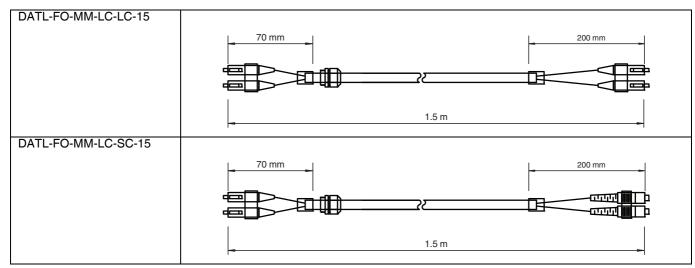
Technical Data

Mechanical specifications							
Connection	duplex LC to duplex LC or duplex LC to duplex SC						
Material	multi-mode fiber optic , OM2 , 50/125 μm						
Cable length	1.5 m						

Ordering Information

Part Number	Model Number	Description	Product Photo
548313	DATL-FO-MM-LC-LC-15	Military-grade fiber optic breakout cable for use with TCU/PCU1X00	
		 Duplex LC to duplex LC 1 x M16 cable gland Multi-mode, 50/125 μm, OM2 Cable length: 1.5 m includes LC-LC coupling 	
548311	DATL-FO-MM-LC-SC-15	Military-grade fiber optic breakout cable for use with TCU/PCU1X00 • Duplex LC to duplex SC • 1 x M16 cable gland • Multi-mode, 50/125 μm, OM2 • Cable length: 1.5 m • includes SC-SC coupling	

Dimensions





Div 2 KVM extender kit SK-KVM-xxx-NR-20-CR-N Series

- Locate an operator workstation up to 300 m from server or pc
- Operate keyboard, mouse, and monitor safely in a Div 2 hazardous area
- Easy installation and operation

VGA to CAT5 KVM kit

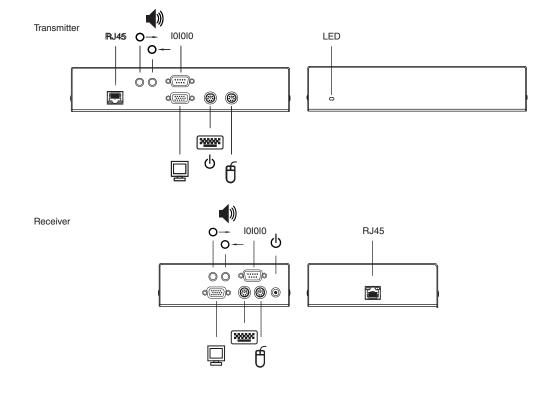




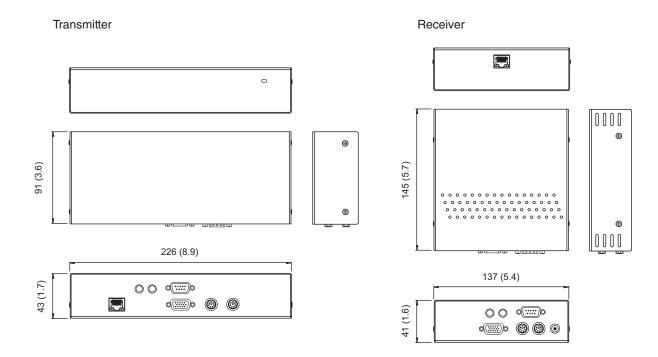
Function

The Pepperl + Fuchs KVM extender SK-KVM-xxx-NR-20-CR-N is a CAT5 to VGA/ PS2 converter for use in Division 2 Hazardous areas. The system consists of two units, a transmitter and a receiver. The transmitter connects to your CPU. The receiver connects to a PS2 keyboard, VGA, and PS2 mouse or KVM station. The transmitter and receiver are connected together with CAT5 Ethernet cable.

Connection



Dimensions



Technical Data		
General specifications		
Resolution	1600 x 1200 @ 60 Hz 1280 x 1024 @ 75 Hz	
Distance	200 m (650 ft) @ 1600 x 1200 300 m (1000 ft) @ 1280 x 1024	
Supply		
Power consumption	12 V DC @ 10 W max	
Indicators/operating means		
Indicators	Video check: LED	
Input devices	VGA - HD15M/F 2 x PS2 (keyboard and mouse) 1 x RS232 (touchscreen) 1 x RJ45 (CAT5e/6)	
Serial data		
Baud rate	19.2 KBd max	
Flow control	RTS, CTS, DTR, DSR	

Type code M 2 R N VGA signal over CAT5; PS2, Serial NR CW DVI signal over CAT5; USB, Serial FW DVI signal over fiber; USB, Serial CPU Transmitter MON Receiver KIT Transmitter and receiver



Div 2 KVM extender kit SK-KVM-xxx-CW-20-CR-N Series

- Locate an operator workstation up to 120 m from server or pc
- Operate keyboard, mouse, and monitor safely in a Div 2 hazardous area
- Transparent operation between computer and monitor
- Automatic skew compensation

DVI to CAT5 KVM kit



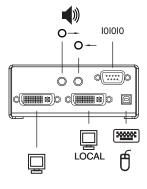


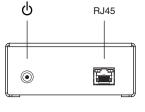
Function

The Pepperl + Fuchs KVM extender SK-KVM-xxx-CW-20-CR-N is a CAT 5 to DVI/USB converter for use in Division 2 Hazardous areas. The system consists of two units, a transmitter and a receiver. The transmitter connects to your CPU. The receiver connects to a USB keyboard, DVI-D monitor, and USB mouse or KVM station. The transmitter and receiver are connected together with CAT5 Ethernet cable.

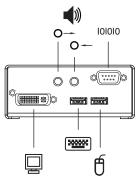
Connection

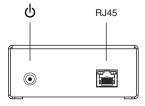






Receiver

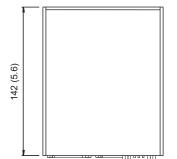


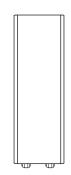


Dimensions

Transmitter

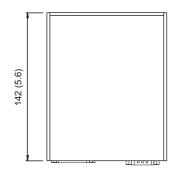


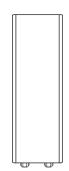


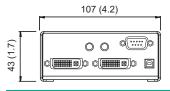


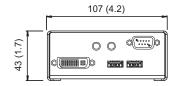












Technical Data

General specifications	
Resolution	Maximum resolution: 1920 x 1200 @ 60 Hz
Distance	120 m (400 ft)
Supply	
Power consumption	5 V DC @ 10 W max
Indicators/operating means	
Indicators	Front panel: power Video check: LED
Input devices	29-pin DVI-D 2 x USB Type A (keyboard and mouse/touchscreen) 1 x RS232 (touchscreen) 1 x RJ45 (CAT5e/6)
Serial data	
Baud rate	19.2 KBd max
Flow control	RTS, CTS, DTR, DSR
Audio data	
Drive capability	5 V p-p
Impedance	47 kΩ
Connector type	3.5 mm stereo jack
Transmission method	16 bit, 38.4 KHz digitized audio
Speaker	powered
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EEC	EN55022A, EN 55024, EN61000-3-2, EN61000-3-3, IEC6100-4-2, IEC6100-4-3, IEC6100-4-4, IEC6100-4-5
Low voltage	
Directive 73/23/EEC	EN60950
Ambient conditions	

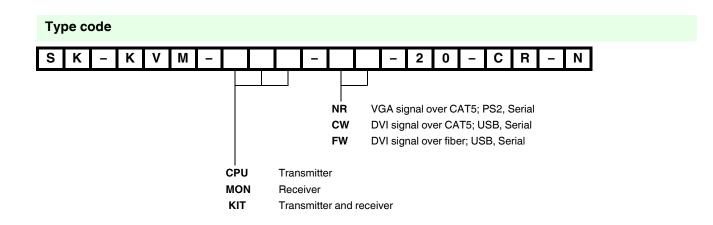
0 ... 50 °C (32 ... 122 °F)

-25 ... 60 °C (-13 ... 140 °F)

Operating temperature Storage temperature

Mechanical specifications

Mass O.3 kg Dimensions 105 mm x 133 mm x 35 mm (4.1 inch x 5.3 inch x 1.4 inch) International approvals UL approval UL Class I/Div 2





Div 2 KVM extender kit

SK-KVM-xxx-FW-20-CR-N Series

- Locate an operator workstation up to 400 m from server or pc
- Operate keyboard, mouse, and monitor safely in a Div 2 hazardous area
- Automatic skew compensation
- Supports multimode fiber-optic cables

DVI to fiber KVM kit



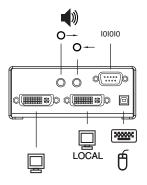


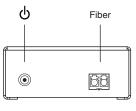
Function

The Pepperl + Fuchs KVM extender SK-KVM-xxx-FW-20-CR-N is a DVI to Fiber converter for use in Division 2 Hazardous areas. The system consists of two units, a transmitter and a receiver. The transmitter connects to your CPU. The receiver connects to a USB keyboard, DVÍ-D monitor, and USB mouse or KVM station. The transmitter and receiver are connected together with fiber optic cable.

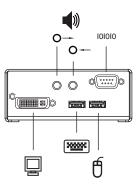
Connection

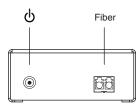
Transmitter





Receiver





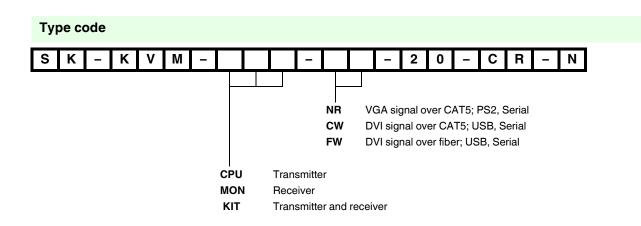
Dimensions

Transmitter Receiver

Technical Data

General specifications	
Resolution	Maximum resolution: 1920 x 1200 @ 60 Hz
Distance	200 m (650 ft) 62.5 μm multimode 400 m (1300 ft) 50.0 μm multimode
Supply	
Power consumption	5 V DC @ 10 W max
Indicators/operating means	
Indicators	Front panel: power Video check: LED
Input devices	29-pin DVI-D 2 x USB Type A (keyboard and mouse/touchscreen) 1 x RS232 (touchscreen) fiber optic (multi-mode) - LC connectors
Serial data	
Baud rate	19.2 KBd max
Flow control	RTS, CTS, DTR, DSR
Audio data	
Drive capability	5 V p-p
Impedance	47 kΩ
Connector type	3.5 mm stereo jack
Transmission method	16 bit, 38.4 KHz digitized audio
Speaker	powered
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EEC	EN55022A, EN 55024, EN61000-3-2, EN61000-3-3, IEC6100-4-2, IEC6100-4-3, IEC6100-4-4, IEC6100-4-5
Low voltage	
Directive 73/23/EEC	EN60950
Ambient conditions	
Operating temperature	0 50 °C (32 122 °F)
Storage temperature	-25 60 °C (-13 140 °F)

Mechanical specifications Mass Dimensions 105 mm x 133 mm x 35 mm (4.1 inch x 5.3 inch x 1.4 inch) International approvals UL approval UL Class I/Div 2

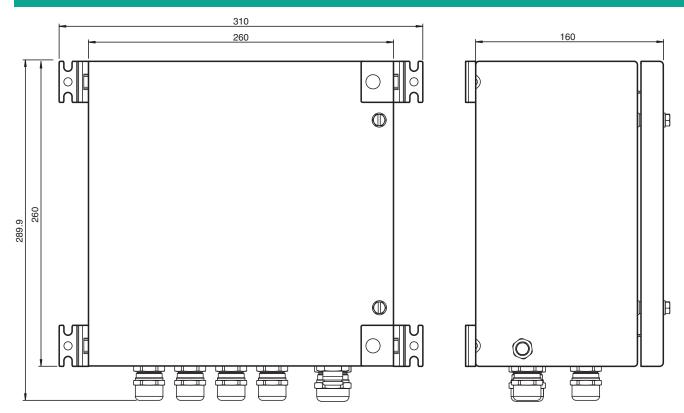


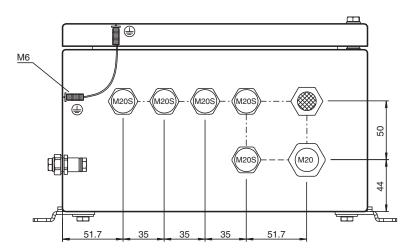


Fiber Optic Media Converter Box PSC2.CP.SR.26.26.16-Y7017109*

- Extended communication range: Fiber optics allow Ethernet devices to communicate over greater distances, enhancing network flexibility
- Connect up to 4 Ethernet devices to a fiber optic network:
 Enables integration of multiple devices, improving scalability and efficiency
- Suitable for outdoor use: Stainless steel and high temperature rating make it suitable for extreme conditions
- High installation flexibility: Supports Single Mode &Multi Mode Fiber Optic and AC / DC power options, adapting to various environments
- Certified for hazardous areas: ATEX / IECEx Zone 2/22 and NEC Class I, II, Div. 2 certification ensures safety in potentially explosive atmospheres, ideal for industrial settings

Dimensions





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Supply		
Rated voltage	U_{r}	AC: 100 240 V 50/60 Hz DC: 24 V
Input current		AC: 1.09 A DC: 0.1 A
Interface		
Interface type		Ethernet Interface 4 x 10/100BaseT(X) Ports (RJ45 connector) All models support: - Auto negotiation speed - Full/half duplex mode - Auto MDI/MDI-X connection
Communication		IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control
Ambient conditions		

Technical Data	
Ambient temperature	-25 50 °C (-13 122 °F)
Operating temperature	-20 50 °C (-4 122 °F)
Relative humidity	5 95 %, non-condensing
Mechanical specifications	o oo /s, nan oondonsiig
Degree of protection	IP66 / Type 4X
Material	21
Housing	316L stainless steel Enclosure cover: Fully detachable Cover fixing: Stainless steel A4 (V4A) hexagonal head screws, optional quarter-turn key locks
Surface	brushed finish
Dimensions	260 mm x 260 mm x 160 mm
International approvals	
ETL approval	
ETL marking	Class I Division 2 Groups ABCD T4 Class II Division 2 Groups FG T135°C
Approved for	Suitable for Class I, Division 2 Groups B,C,D T4 For ETLusNFPA 70 (NEC) UL50-2007 UL50E-2007 UL508A UL 121201
	For cETL CSA C22.2 No.14 CSA22.1-12 (CEC) CSA C22.2 No. 94.1-07 CSA C22.2 No. 94.2-07 CSA C22.2 No. 213
Approved for	ATEX / IECEx Zone 2/22 NEC Class I, II Div. 2

Additional Information

Cable Entries max. Quantity

Options Part No.		Attributes	Cable entry area	
			M20	M20s
PSC2.CP.SR.26.26.16 - Y70171096	70171096	AC / Single Mode	1	5
PSC2.CP.SR.26.26.16 - Y70171097	70171097	AC / Multimode	1	5
PSC2.CP.SR.26.26.16 - Y70171098	70171098	DC / Single Mode	0	6
PSC2.CP.SR.26.26.16 - Y70171099	70171099	DC / Multimode	0	6

Optical specifications

		100BaseFX		
Fiber Cable Type		Multimode	Single mode	
		OM1	50/125 μm	G.652
			800 MHz x km	
Typical distance		4 km	5 km	40 km
Wavelength	Typical (nm)	1300		1310
	TX Range (nm)	1260 to 1360		1280 to 1340
	RX Range (nm)	1100 to 1600		1100 to 1600
Optical Power	TX Range (dBm)	-10 -to 20		0 to -5
	RX Range (dBm)	-3 to -32		-3 to -34
	Link Budget (dB)	12		29
	Dispersion Penalty (dB)	3		1

 $\label{prop:lease} Please find further information about the cable lengths and their calculation in the manual.$



F.O. interface module SK-KVM

The Fibre Optic data interface SK-KVM is the optical galvanic isolator for the iPC-EX system. It must be installed in the safe area close to the PC. The SK-KVM can be connected to the standard 'PS/2 mouse' and 'PS/2 keyboard' ports or to the standard graphics port of the PC.



The SK-KVM is enclosed in a desktop case and supplied with power by means of a 24V plug-in power supply unit. Support plates are optionally available for 19" systems (2 HE, 84 TE), Type ' COVER19K '

Technical data

	SK-KVM
Degree of protection:	·
Degree of protection:	IP 20
Ambient conditions (operation):	·
Temperature range:	0 °C – +50 °C
Relative humidity:	Max. 85% without condensation (48 h endurance test)
Ambient conditions (storage):	
Temperature range:	-10 °C – +70 °C
Mechanical data:	
Weight:	Approx. 1.0 kg
Material:	Aluminium desktop case
Dimensions (W x H x D) in mm:	200 x 70 x 190
Supply voltage:	24V DC ± 20% (approx. 0,8 A)
Laser data transmission Tx:	
Laser class:	1 (meet IEC 60825-1 and FDA 21 CFR 1040.10 u. 1040.11)
Wave length:	830 – 860 nm
maximum subdue:	-7.5 dBm
Max. cable length:	
Max. cable length:	Connection between PC and SK-KVM: max. 2m

1-D/2-D Code Handheld Reader



- CBL-IDMx60-D-J1-S-C38-N0
- Connecting cable

Connection cable for IDM-Z1-x6x-D-* corded Handheld Readers, Connection cable for corded IDM-Z1-x6x-D-* 1-D and 2-D handheld Barcode Readers for easy connectivity of Pepperl+Fuchs VisuNet devices, Approved for Zone 1 + 21 (ATEX + IECEx), Compatible to DATL-IDM-DB-S-XX00-N0 (M12 female connector), M12 male connector to RJ50 connector with additional sealing ring



- CBL-IDMx61-B-N0-U-C38-N0
- USB connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, USB connection cable for base station, Non-Ex, for use in safe area only, RJ50 (cradle) to USB Type A connector, Protocol: USB, Compatible with IDM-Zx-x6x-B-N0*



- DATL-IDM-DB-S-XX00-N0
- Connecting cable

1 m connector cable for corded handheld reader with M12 connector to open cable end, Connector cable for wired 1-D Scanner IDM-Z1-16x-D-1D-J1-S-* and 2-D Scanner IDM-Z1-26x-D-2D-J1-S* and Bluetooth Basestation IDM-Z1-x6x-B-J1-BT-N0, 4-wire with ferrules, IDM Scanner connection via M12-connector, Note: Supports only RS232 Scanner/Basestation



- HOLDER-BRACKET-3200-IDMx61-B-N
- Bracket for 1-D/2-D code handheld readers for VisuNet FLX

Stainless steel bracket to mount IDM-Zx-x6x-B-Jx-BT-N0 base station to AG-3200 housing, Mounting bracket, Simple and fast mounting, Compatible with AG-3200 housing (adapter included), Compatible with 1-D/2-D code handheld reader base stations and chargers



- HOLDER-BRACKET-XX00-IDMx61-B-N
- Bracket for 1-D/2-D code handheld readers for VisuNet GXP 21.5"

Stainless steel bracket to mount IDM-Zx-x6x-B-Jx-BT-N0 base station to AG-XX00 housing, Mounting bracket, Simple and fast mounting, Compatible with AG-XX00 housing (adapter included), Compatible with 1-D/2-D code handheld reader base stations and chargers



- IDM-Z1-x64-B-J1-BT-N0
- Base station for IDM-Z1-* (Zone 1/21)

Base station for IDM-Z1-* (Zone 1/21), Base/charging station for IDM-Z1-x61-M-* Bluetooth® handheld readers, Certified for ATEX and IECEx Zone 1/21, Bluetooth interface



- IDM-Z1-x64-B-J1-BT-N0
- Base station for IDM-Z1-* (Zone 1/21)

Base station for IDM-Z1-* (Zone 1/21), Base/charging station for IDM-Z1-x61-M-* Bluetooth® handheld readers, Certified for ATEX and IECEx Zone 1/21, Bluetooth interface



- IDM-Z1-x64-B-N0-BT-N0
- Base station for IDM-Z1-* (Non-hazardous areas)

Base station for IDM-Z1-* (Non-hazardous areas), Base/charging station for IDM-Z1-x61-M-* Bluetooth® handheld readers, Bluetooth interface



- PSU-IDMx61-BC-N0-N0
- Power supply

Power supply for IDM* non-Ex base station and charger, AC and DC power supplies for IDM* non-Ex base station and charger, Adapters for EU-type F and US-type B power cords



- SCANNER-HOLDER-U1-3200-N0
- Scanner holder for 1-D/2-D code handheld readers for VisuNet FLX

Stainless steel holder for IDMx6x handheld readers and Ident-Ex® 01, compatible with AG-3200 housing, Mounting bracket, Simple and fast mounting, Compatible with AG-3200 housing (adapter included), Compatible with 1-D/2-D code handheld readers such as the IDM and Ident-Ex® portfolios



- SCANNER-HOLDER-U1-AG1-N0
- Scanner holder for 1-D/2-D code handheld readers for VisuNet GXP 19"

Stainless steel holder for IDM-Z1- handheld readers, compatible with AG1 housing, Mounting bracket, Simple and fast mounting, Compatible with AG1 housing (adapter included), Compatible with 1-D/2-D code handheld readers such as the IDM and Ident-Ex® portfolios



- SCANNER-HOLDER-U1-XX00-N0
- Scanner holder for 1-D/2-D code handheld readers for VisuNet GXP 21.5"

Stainless steel holder for IDM-Z1- handheld readers, compatible with AG-XX00 housing, Mounting bracket, Simple and fast mounting, Compatible with AG-XX00 housing (adapter included), Compatible with 1-D/2-D code handheld readers such as the IDM and Ident-Ex® portfolios



- CBL-IDM160-D-J1-U-C38-N0
- Connecting cable

Connection cable for IDM-Zx-x6x-D-* corded Handheld Readers, Connection cable for corded IDM-Zx-x6x-D-* 1-D and 2-D handheld Barcode Readers for easy connectivity of Pepperl+Fuchs VisuNet devices, Approved for Zone 1/21 and Zone 2/22 (ATEX + IECEx), Compatible to DATL-IDM-DB-S-XX00-N0 (M12 female connector), M12 male connector to RJ50 connector with additional sealing ring



- CBL-IDM160-D-J1-U-S18-N0
- Connecting cable

Connection cable for IDM-Z1-x6x-D-* corded Handheld Readers, Connection cable for corded IDM-Z1-x6x-D-* 1-D and 2-D handheld Barcode Readers for easy connectivity of Pepperl+Fuchs VisuNet devices, Approved for Zone 1 + 21 (ATEX + IECEx), Compatible to DATL-IDM-DB-S-XX00-N0 (M12 female connector), M12 male connector to RJ50 connector with additional sealing ring



- CBL-IDMx60-D-J1-S-S18-N0
- Connecting cable

Connection cable for IDM-Zx-x6x-D-* corded Handheld Readers, Connection cable for corded IDM-Zx-x6x-D-* 1-D and 2-D handheld Barcode Readers for easy connectivity of Pepperl+Fuchs VisuNet devices, Approved for Zone 1/21 and Zone 2/22 (ATEX + IECEx), Compatible to DATL-IDM-DB-S-XX00-N0 (M12 female connector), M12 male connector to RJ50 connector with additional sealing ring



- CBL-IDMx61-B-J1-S-C38-N0
- Serial connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, Serial connection cable for base station, Protocol: serial, Compatible with IDM-Zx-x6x-B-* base station, Suitable for Zone 1/21 & Zone 2/22, RJ50 (cradle) to M12 male connector



- CBL-IDMx61-B-J1-S-S18-N0
- Serial connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, Serial connection cable for base station, Protocol: serial, Compatible with IDM-Zx-x6x-B-* base station, Suitable for Zone 1/21 & Zone 2/22, RJ50 (cradle) to M12 male connector



- CBL-IDMx61-B-J1-U-C38-N0
- USB connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, USB connection cable for base station, Protocol: USB, Compatible with IDM-Zx-x6x-B-* base station, Suitable for Zone 1/21 & Zone 2/22, RJ50 (cradle) to M12 male connector



- CBL-IDMx61-B-J1-U-S18-N0
- USB connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, USB connection cable for base station, Protocol: USB, Compatible with IDM-Zx-x6x-B-* base station, Suitable for Zone 1/21 & Zone 2/22, RJ50 (cradle) to M12 male connector



- CBL-IDMx61-B-Jx-S-S07-N0
- Connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, Serial connection cable for base station, Protocol: serial, Compatible with IDM-Zx-x6x-B-* base station, Suitable for Zone 1/21 & Zone 2/22, RJ50 (cradle) to M12 male connector



- CBL-IDMx61-B-Jx-U-S07-N0
- Connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, USB connection cable for base station, Protocol: USB, Compatible with IDM-Zx-x6x-B-* base station, Suitable for Zone 1/21 & Zone 2/22, RJ50 (cradle) to M12 male connector



- CBL-IDMx61-B-N0-S-C38-N0
- Serial connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, Serial connection cable for base station, Non-Ex, for use in safe area only, RJ50 (cradle) to SUB-D9 connector, Protocol: serial, Compatible with IDM-Zx-x6x-B-N0*



- CBL-IDMx61-B-N0-S-S18-N0
- Serial connection cable for base station

Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, Serial connection cable for base station, Non-Ex, for use in safe area only, RJ50 (cradle) to SUB-D9 connector, Protocol: serial, Compatible with IDM-Zx-x6x-B-N0*



- CBL-IDMx61-B-N0-U-S18-N0
- USB connection cable for base station

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Accessory cable for IDM-Zx-x6x-M-* Bluetooth® handheld readers, USB connection cable for base station, Non-Ex, for use in safe area only, RJ50 (cradle) to USB Type A connector, Protocol: USB, Compatible with IDM-Zx-x6x-B-N0*



- CBL-IDMx6x-DB-J1-S-C30-N0
- Serial extension cable

Serial extension cable for IDM-Zx-* handheld barcode readers, Serial extension cable, Suitable for Zone 1/21 and Zone 2/22 (ATEX & IECEx), M12 female socket to M12 male connector, Protocol: serial



- CBL-IDMx6x-DB-J1-S-C60-N0
- Serial extension cable

Serial extension cable for IDM-Zx-* handheld barcode readers, Serial extension cable, Suitable for Zone 1/21 and Zone 2/22 (ATEX & IECEx), M12 female socket to M12 male connector, Protocol: serial



- CBL-IDMx6x-DB-J1-S-S30-N0
- Serial extension cable

Serial extension cable for IDM-Zx-* handheld barcode readers, Serial extension cable, Suitable for Zone 1/21 and Zone 2/22 (ATEX & IECEx), M12 female socket to M12 male connector, Protocol: serial



- CBL-IDMx6x-DB-J1-S-S60-N0
- Serial extension cable

Serial extension cable for IDM-Zx-* handheld barcode readers, Serial extension cable, Suitable for Zone 1/21 and Zone 2/22 (ATEX & IECEx), M12 female socket to M12 male connector, Protocol: serial



- HOLDER-BRACKET-AG1-IDMx61-B-N0
- Bracket for 1-D/2-D code handheld readers for VisuNet GXP 19"

Stainless steel bracket to mount IDM-Zx-x6x-B-Jx-BT-N0 base station to AG1 housing, Mounting bracket, Simple and fast mounting, Compatible with AG1 housing (adapter included), Compatible with 1-D/2-D code handheld reader base stations and chargers



- IDM-Z2-x61-C-N0-BT-N0
- Charging station for IDM-Z2-* (Non-hazardous areas)

Charging station for IDM-Z2-* without Bluetooth® functionality (Non-hazardous area), Charging station for IDM-Z2-x61-M-* Bluetooth handheld readers, For use in non-hazardous area only



- IDM-72-x64-B-J2-BT-N0
- Base station for IDM-Z2-* (Zone 2/22)

Base station for IDM-Z2-* (Zone 2/22), Base/charging station for IDM-Z2-x61-M-* Bluetooth® handheld readers, Certified for ATEX and IECEx Zone 2/22, Bluetooth interface



- IDM-Z2-x64-B-N0-BT-N0
- Base station for IDM-Z2-* (Non-hazardous areas)

Base station for IDM-Z2-* (Non-hazardous areas), Base/charging station for IDM-Z2-x61-M-* Bluetooth® handheld readers, Bluetooth interface



- SK-IDM-Z2-J2-1M-U-N
- USB supply cable for corded IDM-Z2-*

Cable barrier for corded IDM-Z2-* handheld readers and base station, Cable-Barrier for corded 1-D and 2-D reader and base station, Enable operation in Zone 2/22, USB Ex ic (via M12 female socket) connection



- SK-IDM-Z2-J2-5M-S-N
- Serial supply cable for corded IDM-Z2-*

Cable barrier for corded IDM-Z2-* handheld readers and base station, Cable-Barrier for corded 1-D and 2-D reader and base station, Enable operation in Zone 2/22, Serial RS-232/422 Ex ic (via M12 female socket) connection



- SK-PROFIBUS-DP-SPI3-HS
- SK-PROFIBUS SPI3

Profibus-DP gateway, for Siemens only



- HOLDER-BRACKET-SK-IDM-Z2-N0
- Accessory for IDM-Z2-*

Bracket for wall mounting of the SK-IDM-Z2-J2-* supply cable, Mounting bracket, Simple and fast mounting



- IDM-Z1-x60-D-*
- Corded 1-D and 2-D Handheld Reader for Zone 1/21

Corded 1-D and 2-D Handheld Reader for Zone 1/21, Approved for Zone 1 and 21 (ATEX and IECEx), All 1-D standard barcode families supported, 2-D model supports Data Matrix, QR, and other two-dimensional codes, Fall tested from 2 m to ensure reliability



- IDM-Z1-x61-C-N0-BT-N0
- Charging station for IDM-Z1-* (Non-hazardous areas)

Charging station for IDM-Z1-* without Bluetooth® functionality (Non-hazardous area), Charging station for IDM-Z1-x61-M-* Bluetooth handheld readers, For use in non-hazardous area only



- IDM-Z1-x61-M-*
- Bluetooth® 1-D and 2-D Handheld Reader for Zone 1/21

Bluetooth® 1-D and 2-D Handheld Reader for Zone 1/21, Approved for Zone 1 and 21 (ATEX and IECEx), All 1-D standard barcode families supported, 2-D model supports Data Matrix, QR, and other two-dimensional codes, Fall tested from 2 m to ensure reliability



- IDM-Z1-x64-D-*
- Corded 1-D and 2-D Handheld Reader for Zone 1/21

Corded 1-D and 2-D Handheld Reader for Zone 1/21, Approved for Zone 1 and 21 (ATEX and IECEx), All 1-D standard barcode families supported, 2-D model supports Data Matrix, QR, and other two-dimensional codes, Fall tested from 2 m to ensure reliability



- IDM-Z1-x64-M-*
- Bluetooth® 1-D and 2-D Handheld Reader for Zone 1/21

Bluetooth® 1-D and 2-D Handheld Reader for Zone 1/21, Approved for Zone 1 and 21 (ATEX and IECEx), All 1-D standard barcode families supported, 2-D model supports Data Matrix, QR, and other two-dimensional codes, Fall tested from 2 m to ensure reliability



- IDM-Z2-x60-D-*
- Corded 1-D and 2-D Handheld Reader for Zone 2/22

Corded 1-D and 2-D Handheld Reader for Zone 2/22, Approved for Zone 2 and 22 (ATEX and IECEx), All 1-D standard barcode families supported, 2-D model supports Data Matrix, QR, and other two-dimensional codes, Fall tested from 2 m to ensure reliability



- IDM-Z2-x61-M-*
- Bluetooth® 1-D and 2-D Handheld Reader for Zone 2/22

Bluetooth® 1-D and 2-D Handheld Reader for Zone 2/22, Approved for Zone 2 and 22 (ATEX and IECEx), All 1-D standard barcode families supported, 2-D model supports Data Matrix, QR, and other two-dimensional codes, Fall tested from 2 m to ensure reliability



- IDM-Z2-x64-D-*
- Corded 1-D and 2-D Handheld Reader for Zone 2/22

•

Corded 1-D and 2-D Handheld Reader for Zone 2/22, Approved for Zone 2 and 22 (ATEX and IECEx), All 1-D standard barcode families supported, 2-D model supports Data Matrix, QR, and other two-dimensional codes, Fall tested from 2 m to ensure reliability



- IDM-Z2-x64-M-*
- Bluetooth® 1-D and 2-D Handheld Reader for Zone 2/22

Bluetooth® 1-D and 2-D Handheld Reader for Zone 2/22, Approved for Zone 2 and 22 (ATEX and IECEx), All 1-D standard barcode families supported, 2-D model supports Data Matrix, QR, and other two-dimensional codes, Fall tested from 2 m to ensure reliability



- SK-IDM-Z1-x60-*
- Supply module for IDM-Z1-*

Power supply for IDM-Z1-* handheld readers and base station, AC and DC power supplies for IDM-Z1-* handheld readers and base station, Enable operation in Zone 1/21, Sturdy aluminum housing



Ex i keyboard with optical trackball EXTA4-*-K8* (2020 Generation)

- Degree of protection: IP 65
- Stainless steel housing
- National layout variants available for US, GER and FR
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in Zone 1/21 and Zone 2/22 hazardous areas
- USB or PS/2 interface with USB cable
- UL listed for USA and Canada, Class I, Div. 2 (UL HazLoc Equipment) or Class I, II, III, Div. 2 (UL Hazloc Component)

Ex i keyboard with optical trackball







Function

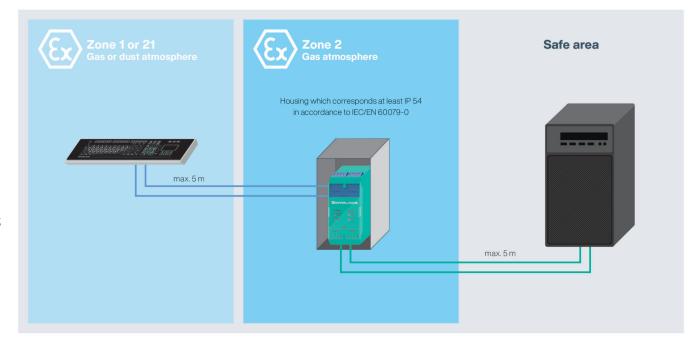
EXTA4-* is an intrinsically safe keyboard with touchpad (EXTA4-*-K4*), joystick (EXTA4-*-K6*) or optical trackball (EXTA4-*-K8*). The interfaces of mouse and keyboard are separated IS-Circuits. Both circuits are lead trough in one connecting cable (connecting cable is included in delivery). The keyboards are designed for panel mounting or for installation in a housing.

The keyboards are designed for panel mounting or for installation in a housing.

The EXTA4-* is designed as accessory for the Pepperl+Fuchs Workstations VisuNet GXP and VisuNet FLX but can be used as stand-alone keyboard in combination with the available barriers as well.

Function Principle

Sample Stand-alone Application for Keyboards (Refer to the manual for further samples.)

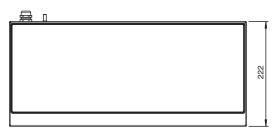


Release date: 2024-08-29 Date of issue: 2024-08-29 Filename: t199125_eng.pdf

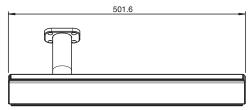
Desktop housing

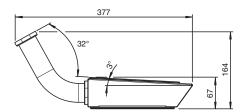


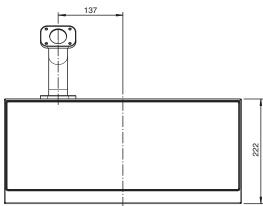




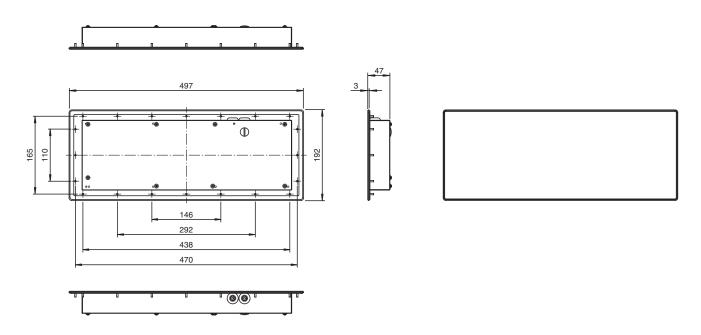
Standard housing with mounting options – sample VisuNet GXP One-Arm Installation







Panel Mounting



Technical Data

General specifications		
Type		Keyboard with optical trackball
Suitable components		SK-PC-Z1D1-UU1-10-HS and SK-PC-D2-UU1-10-HS
Supply		
Rated voltage	U _r	Ex i, via data line
Indicators/operating means		
Keyboard		105 short stroke keys Keyboard layout: US international, German, French
Trackball		
Diameter		50 mm
Material		Phenolic resin (black)
Driver		Microsoft Mouse ® , USB
Interface		
Interface type		USB
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) EN 61000-6-4:2007+A1:2011
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Conformity		
Degree of protection		IP65 in full operation (dynamic)
Ambient conditions		
Ambient temperature		0 50 °C (32 122 °F)
Storage temperature		-20 70 °C (-4 158 °F)
Relative humidity		max. 85 % , non-condensing
Mechanical specifications		
Material		anodized aluminum , Polyester foil
Mass		1.2 kg (without housing)
Dimensions		502 mm x 222 mm x 66 mm

	IECEx app	roval
	IECEx ce	ertificate
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≒5	EXTA4-* EXTA4-	
g.bc	Model	
Release date: 2024-08-29 Date of issue: 2024-08-29 Filename: t199125_eng.pdf	EXTA4-	Short tr
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8-26	K4	Capaci
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rte: 20	K8	Optical
se da	(4)-	Keybo
leas	US0-	US-Inte
R	030-	100-1116

Technical Data	
Cut out dimensions	450 mm x 152 mm
Cable length	5 m / 1.8 m / 1 m
Data for application in connection with haza	rdous areas
EU-type examination certificate	Zone 1/21 BVS 07 ATEX E 163 X
	Zone 2/22 BVS 21 ATEX E 009 X
Marking	Zone 1/21 ② II 2G Ex ib IIC T4 Gb ③ II 2D Ex ib IIIB T135°C Db
	Zone 2/22
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018 EN 60079-11:2012
International approvals	
UL approval	
Approved for	EXTA4-*-Fx-K8; EXTA4-*-Tx-K8 (Equipment) Class I, Div 2; Gr A, B, C, D: T5 Class I, Zone 2, Grp IIC; T5
	EXTA4-* -Nx-K8 (Component) Class I Div 2, Gr A, B, C, D; T5 Class II, Div 2; Gr F, G; T5 Class III
	Class I, Zone 2; Gr IIC; T5 Class II, Zone 22; Gr IIIB; T85°C Class III, Zone 22; Gr IIIA; T85°C
IECEx approval	
IECEx certificate	Zone 1/21 IECEx BVS 08.0022X
	Zone 2/22 IECEx BVS 08.0022X
IECEx marking	Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIB T135°C Db
	Zone 2/22 Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc

EXTA4-	(1)-	(2)-	K(3)	(4)-	U(5)	(6)-	(7)-	(8)

Model	
EXTA4-	Short travel foil keyboard for use in explosion hazardous environments - standard option
	•

(1)-	Ex Protection
N-	Industrial, general purpose (non-ex)
J-	ATEX & IECEx Zone 1/21
L-	ATEX & IECEx Zone 2/22 and Class I/II, Division 2

(2)-	Housings
NN-	No housing, panel mounting
F1-	Standard housing with mounting options
T1-	Desktop housing

K(3)	Mouse Options
K4	Capacitive Touchpad
K6	Joystick [Class I, Div. 2 only for "F1" and "T1" housing]
K8	Optical Trackball

(4)-	Keyboard Layouts
US0-	US-International Layout (QWERTY)

Type Code

(4)-	Keyboard Layouts
DE0-	German Layout (QWERTZ)
FR0-	French Layout (AZERTY)
xxx-	Other languages on request [place holder option for other languages]

U(5)	Cable Length
U10	1 m cable length (preferred for GXP and FLX) [only for housing options "NN" and "F1", not for "T1"]
U18	1.8 m cable length (preferred option for AG1 housing)
U50	5 m cable length (preferred for Desktop housing option) [only for housing options "NN" and "T1", not for "F1"]

(6)-	Connectors
CF-	Cable ends with crimped ferrules (e.g. to connect to VisuNet GXP or Barrier) - standard option
UA-	2x USB type A male connectors (e.g. to connect to VisuNet FLX) - standard option

(7)-	Mounting Options
NP-	Panel mounting [only for housing option "NN"]
T1-	No mounting option - Desktop housing [only for housing options "T1" AND cable length "U18" or "U50"]
G1-	GXP One-Arm installation to AG-XX00 - standard option [only for housing option "F1" AND cable length "U10" AND connector "CF"]
G2-	GXP Double-Arm installation to AG1 - standard option [only for housing option "F1" AND cable length "U18" AND connector "CF"]
H1-	Hinged version for VisuNet FLX - standard option [only for housing option "F1" AND cable length "U10" AND connector "UA"]
C1-	Cabinet / horizontal installation on vertical housing (wall mounting) - standard option [only for housing option "F1" AND cable length "U18" AND connector "UA"]

(8)	Options
N0	Standard, no options - standard option [standard option & preferred]
UV	UV-resistant front foil for outdoor use

Example:

_									
ſ	EXTA4-	N-	NN-	K4	US0-	U10	CF-	NP-	N0

Additional Information

Chemical resistance of keyboard foil

The keyboard foil is manufactured from a biaxially aligned polyester-based material and therefore has a greater resistance to solvents. The foil is stronger and more durable than other standard foils used on keyboards and front panels, such as polycarbonate and PVC.

The keyboard foil is resistant against the following substances: (Test methode: DIN42115)	The foil passed the anti microbial effectiveness tested with: (Test method: AATCC Test method 100)
Alcohols	Staphyloccus aureus (MRSA)
Dilute acids	Escherichia coli 0157
Dilute alkalis	Listeria monocytogenes
Esters	Pseudomonas aeruginosa
Hydrocarbons	Salmonella enteritidis
Ketones	Bacillus cereus
Household cleaning agents	Streptococcus faecalis
	Klebsiella pneumoniae
	Aspergillus niger
	Penicillium purpurogenum
	Phoma violacea
	Saccharmyces cerevisiae



Ex i keyboard with joystick EXTA4-*-K6* (2020 Generation)

- Degree of protection: IP66 (housing), IP65 (front panel)
- Stainless steel housing
- National layout variants available for US, GER and FR
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in Zone 1/21 and Zone 2/22 hazardous areas
- USB or PS/2 interface with USB cable
- UL listed for USA and Canada, Class I, Div. 2 (UL HazLoc Equipment)

Ex i keyboard with joystick







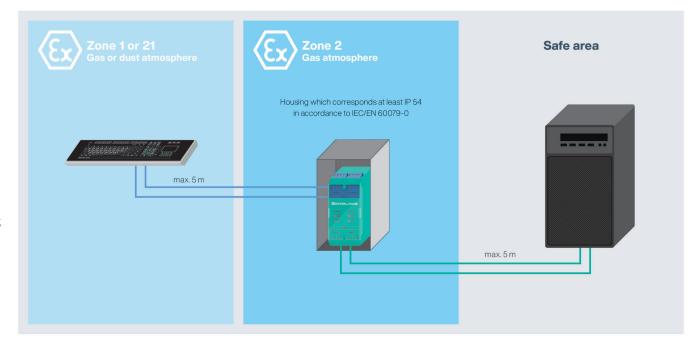
Function

EXTA4-* is an intrinsically safe keyboard with touchpad (EXTA4-*-K4*), joystick (EXTA4-*-K6*) or optical trackball (EXTA4-*-K8*). The interfaces of mouse and keyboard are separated IS-Circuits. Both circuits are lead trough in one connecting cable (connecting cable is included in delivery). The keyboards are designed for panel mounting or for installation in a housing.

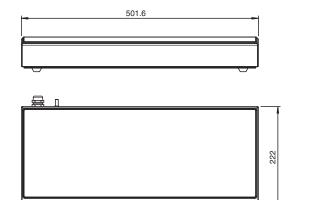
The EXTA4-* is designed as accessory for the Pepperl+Fuchs Workstations VisuNet GXP and VisuNet FLX but can be used as stand-alone keyboard in combination with the available barriers as well.

Function Principle

Sample Stand-alone Application for Keyboards (Refer to the manual for further samples.)

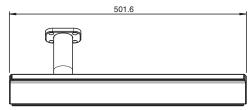


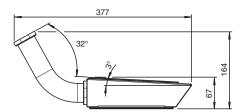
Desktop housing

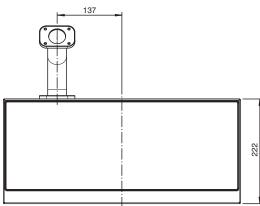




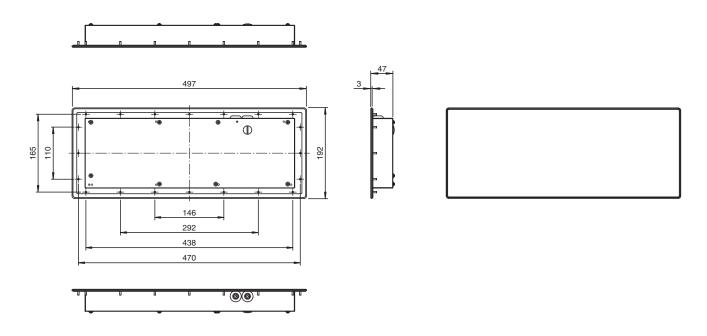
Standard housing with mounting options – sample VisuNet GXP One-Arm Installation







Panel Mounting



Technical Data

General specifications		
Туре		Keyboard with joystick
Suitable components		SK-PC-Z1D1-UU1-10-HS and SK-PC-D2-UU1-10-HS
Supply		
Rated voltage	U_{r}	Ex i, via data line
Indicators/operating means		
Keyboard		105 short stroke keys Keyboard layout: US international, German, French
Joystick		
Driver		Microsoft Mouse ® , USB
Interface		
Interface type		USB
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) EN 61000-6-4:2007+A1:2011
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Conformity		
Degree of protection		IP65
Ambient conditions		
Ambient temperature		-20 50 °C (-4 122 °F)
Storage temperature		-20 70 °C (-4 158 °F)
Relative humidity		max. 85 %, non-condensing
Mechanical specifications		
Material		anodized aluminum , Polyester foil
Mass		1.2 kg (without housing)
Dimensions		502 mm x 222 mm x 66 mm
Cut out dimensions		450 mm x 152 mm
Cable length		5 m / 1.8 m / 1 m

Technical Data

rdous areas
Zone 1/21 BVS 07 ATEX E 163 X
Zone 2/22 BVS 21 ATEX E 009 X
Zone 1/21 © II 2G Ex ib IIC T4 Gb © II 2D Ex ib IIIB T135°C Db
Zone 2/22 ⑤ II 3G Ex ic IIC T4 Gc ⑥ II 3D Ex ic IIIB T135°C Dc
EN IEC 60079-0:2018 EN 60079-11:2012
EXTA4-*-Fx-K6; EXTA4-*-Tx-K6 (Equipment) Class I, Div 2; Gr A, B, C, D: T5 Class I, Zone 2, Grp IIC; T5
Zone 1/21 IECEx BVS 08.0022X
Zone 2/22 IECEx BVS 08.0022X
Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIB T135°C Db
Zone 2/22 Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc

Type Code

EXTA4-*

[EXTA4-	(1)-	(2)-	K(3)	(4)-	U(5)	(6)-	(7)-	(8)
-		-							

Model	
EXTA4-	Short travel foil keyboard for use in explosion hazardous environments - standard option

(1)-	Ex Protection
N-	Industrial, general purpose (non-ex)
J-	ATEX & IECEx Zone 1/21
L-	ATEX & IECEx Zone 2/22 and Class I/II, Division 2

(2)-	Housings	
NN-	housing, panel mounting	
F1-	tandard housing with mounting options	
T1-	Desktop housing	

K(3)	Mouse Options		
K4	Capacitive Touchpad		
K6	pystick [Class I, Div. 2 only for "F1" and "T1" housing]		
K8	Optical Trackball		

(4)-	Keyboard Layouts			
US0-	International Layout (QWERTY)			
DE0-	erman Layout (QWERTZ)			
FR0-	French Layout (AZERTY)			
xxx-	Other languages on request [place holder option for other languages]			

U(5)	Cable Length
U10	1 m cable length (preferred for GXP and FLX) [only for housing options "NN" and "F1", not for "T1"]
U18	1.8 m cable length (preferred option for AG1 housing)
U50	5 m cable length (preferred for Desktop housing option) [only for housing options "NN" and "T1", not for "F1"]

Type (Code
--------	------

(6)-	Connectors
CF-	Cable ends with crimped ferrules (e.g. to connect to VisuNet GXP or Barrier) - standard option
UA-	2x USB type A male connectors (e.g. to connect to VisuNet FLX) - standard option

(7)-	Mounting Options
NP-	Panel mounting [only for housing option "NN"]
T1-	No mounting option - Desktop housing [only for housing options "T1" AND cable length "U18" or "U50"]
G1-	GXP One-Arm installation to AG-XX00 - standard option [only for housing option "F1" AND cable length "U10" AND connector "CF"]
G2-	GXP Double-Arm installation to AG1 - standard option [only for housing option "F1" AND cable length "U18" AND connector "CF"]
H1-	Hinged version for VisuNet FLX - standard option [only for housing option "F1" AND cable length "U10" AND connector "UA"]
C1-	Cabinet / horizontal installation on vertical housing (wall mounting) - standard option [only for housing option "F1" AND cable length "U18" AND connector "UA"]

(8)	Options
N0	Standard, no options - standard option [standard option & preferred]
UV	UV-resistant front foil for outdoor use

Example:

EXTA4-	N-	NN-	K4	US0-	U10	CF-	NP-	N0

Additional Information

Chemical resistance of keyboard foil

The keyboard foil is manufactured from a biaxially aligned polyester-based material and therefore has a greater resistance to solvents. The foil is stronger and more durable than other standard foils used on keyboards and front panels, such as polycarbonate and PVC.

The keyboard foil is resistant against the following substances: (Test methode: DIN42115)	The foil passed the anti microbial effectiveness tested with: (Test method: AATCC Test method 100)
Alcohols	Staphyloccus aureus (MRSA)
Dilute acids	Escherichia coli 0157
Dilute alkalis	Listeria monocytogenes
Esters	Pseudomonas aeruginosa
Hydrocarbons	Salmonella enteritidis
Ketones	Bacillus cereus
Household cleaning agents	Streptococcus faecalis
	Klebsiella pneumoniae
	Aspergillus niger
	Penicillium purpurogenum
	Phoma violacea
	Saccharmyces cerevisiae



Ex i keyboard with touch pad EXTA4-*-K4* (2020 Generation)

- Degree of protection: IP66
- Stainless steel housing
- National layout variants available for US, GER and FR
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in Zone 1/21 and Zone 2/22 hazardous areas
- USB or PS/2 interface with USB cable
- UL listed for USA and Canada, Class I, Div. 2 (UL HazLoc Equipment) or Class I, II, III, Div. 2 (UL Hazloc Component)

Ex i keyboard with touch pad







Function

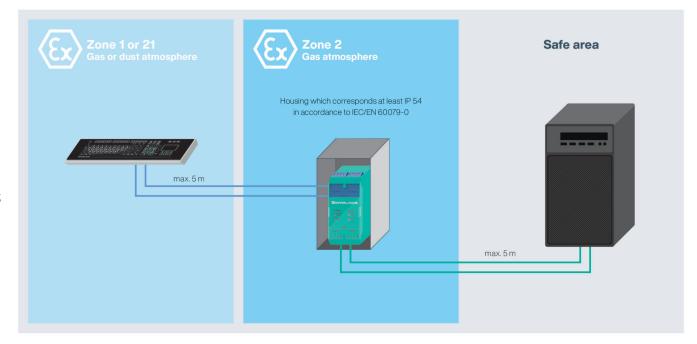
EXTA4-* is an intrinsically safe keyboard with touchpad (EXTA4-*-K4*), joystick (EXTA4-*-K6*) or optical trackball (EXTA4-*-K8*). The interfaces of mouse and keyboard are separated IS-Circuits. Both circuits are lead trough in one connecting cable (connecting cable is included in delivery). The keyboards are designed for panel mounting or for installation in a housing.

The EXTA4-* is designed as accessory for the Pepperl+Fuchs Workstations VisuNet GXP and VisuNet FLX but can be used as stand-alone

keyboard in combination with the available barriers as well.

Function Principle

Sample Stand-alone Application for Keyboards (Refer to the manual for further samples.)

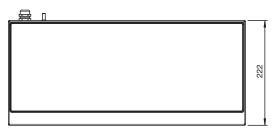


Release date: 2024-08-29 Date of issue: 2024-08-29 Filename: t199188_eng.pdf

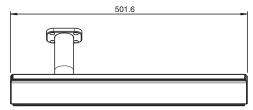
Desktop housing

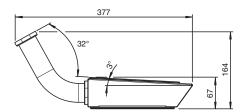


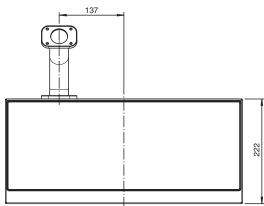




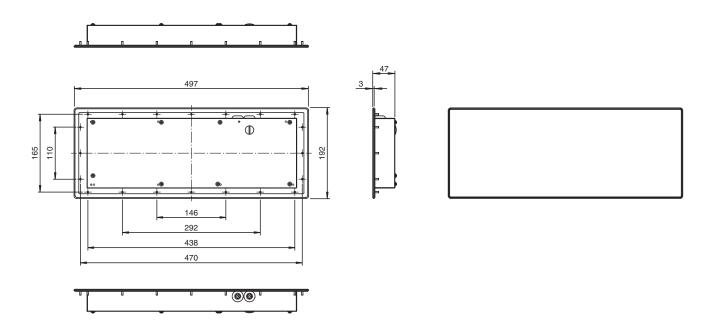
Standard housing with mounting options – sample VisuNet GXP One-Arm Installation







Panel Mounting



Technical Data

General specifications		
Туре		Keyboard with touch pad
Suitable components		SK-PC-Z1D1-UU1-10-HS and SK-PC-D2-UU1-10-HS
Supply		
Rated voltage	U _r	Ex i, via data line
Indicators/operating means		
Keyboard		105 short stroke keys Keyboard layout: US international, German, French
Touchpad		
Active Principle		Capacitive
Resolution		40 Pts./mm
Dimensions		66 x 50
Driver		Microsoft Mouse ® , USB
Interface		
Interface type		USB
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) EN 61000-6-4:2007+A1:2011
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Conformity		
Degree of protection		IP66
Ambient conditions		
Ambient temperature		-20 50 °C (-4 122 °F)
Storage temperature		-20 70 °C (-4 158 °F)
Relative humidity		max. 85 %, non-condensing
Mechanical specifications		
Material		anodized aluminum , Polyester foil
Mass		1.2 kg (without housing)

Technical Data

Cut out dimensions

Dimensions

Cable length 5 m / 1.8 m / 1 m Data for application in connection with hazardous areas EU-type examination certificate Zone 1/21 BVS 07 ATEX E 163 X Zone 2/22 BVS 21 ATEX E 009 X Marking Zone 1/21 Zone 2/22 ☑ II 3G Ex ic IIC T4 Gc☑ II 3D Ex ic IIIB T135°C Dc Directive conformity EN IEC 60079-0:2018 EN 60079-11:2012 Directive 2014/34/EU International approvals **UL** approval EXTA4-*-Fx-K4; EXTA4-*-Tx-K4 (Equipment) Class I, Div 2; Gr A, B, C, D: T5 Class I, Zone 2, Grp IIC; T5 Approved for EXTA4-* -Nx-K4 (Component) Class I Div 2, Gr A, B, C, D; T5 Class II, Div 2; Gr F, G; T5 Class III Class I, Zone 2; Gr IIC; T5 Class II, Zone 22; Gr IIIB; T85°C Class III, Zone 22; Gr IIIA; T85°C IECEx approval Zone 1/21 IECEx BVS 08.0022X IECEx certificate Zone 2/22 IECEx BVS 08.0022X Zone 1/21 Ex ib IIC T4 Gb IECEx marking Ex ib IIIB T135°C Db Zone 2/22 Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc **Type Code** EXTA4-*

502 mm x 222 mm x 66 mm

450 mm x 152 mm

EXTA4-
EXT
Model
EXTA4-
(1)-
N-
J-
Ŀ
(2)-
NN-
F1-
T1-

Release date: 2024-08-29 Date of issue: 2024-08-29 Filename: t199188_eng.pdf

EXTA4-	(1)-	(2)-	K(3)	(4)-	U(5)	(6)-	(7)-	(8)

Short travel foil keyboard for use in explosion hazardous environments - standard option

(4)	
(1)-	Ex Protection
N-	Industrial, general purpose (non-ex)
J-	ATEX & IECEx Zone 1/21
L-	ATEX & IECEx Zone 2/22 and Class I/II, Division 2

(2)-	Housings
NN-	No housing, panel mounting
F1-	Standard housing with mounting options
T1-	Desktop housing

K(3)	Mouse Options
K4	Capacitive Touchpad
K6	Joystick [Class I, Div. 2 only for "F1" and "T1" housing]
K8	Optical Trackball

Type (Code
--------	------

(4)-	Keyboard Layouts
US0-	US-International Layout (QWERTY)
DE0-	German Layout (QWERTZ)
FR0-	French Layout (AZERTY)
xxx-	Other languages on request [place holder option for other languages]

U(5)	Cable Length				
U10	1 m cable length (preferred for GXP and FLX) [only for housing options "NN" and "F1", not for "T1"]				
U18	1.8 m cable length (preferred option for AG1 housing)				
U50	5 m cable length (preferred for Desktop housing option) [only for housing options "NN" and "T1", not for "F1"]				

(6)-	Connectors
CF-	Cable ends with crimped ferrules (e.g. to connect to VisuNet GXP or Barrier) - standard option
UA-	2x USB type A male connectors (e.g. to connect to VisuNet FLX) - standard option

(7)-	Mounting Options
NP-	Panel mounting [only for housing option "NN"]
T1-	No mounting option - Desktop housing [only for housing options "T1" AND cable length "U18" or "U50"]
G1-	GXP One-Arm installation to AG-XX00 - standard option [only for housing option "F1" AND cable length "U10" AND connector "CF"]
G2-	GXP Double-Arm installation to AG1 - standard option [only for housing option "F1" AND cable length "U18" AND connector "CF"]
H1-	Hinged version for VisuNet FLX - standard option [only for housing option "F1" AND cable length "U10" AND connector "UA"]
C1-	Cabinet / horizontal installation on vertical housing (wall mounting) - standard option [only for housing option "F1" AND cable length "U18" AND connector "UA"]

(8)	Options
N0	Standard, no options - standard option [standard option & preferred]
UV	UV-resistant front foil for outdoor use

Example:

EXTA4-	N-	NN-	K4	US0-	U10	CF-	NP-	N0

Additional Information

Chemical resistance of keyboard foil

The keyboard foil is manufactured from a biaxially aligned polyester-based material and therefore has a greater resistance to solvents. The foil is stronger and more durable than other standard foils used on keyboards and front panels, such as polycarbonate and PVC.

The keyboard foil is resistant against the following substances: (Test methode: DIN42115)	The foil passed the anti microbial effectiveness tested with: (Test method: AATCC Test method 100)
Alcohols	Staphyloccus aureus (MRSA)
Dilute acids	Escherichia coli 0157
Dilute alkalis	Listeria monocytogenes
Esters	Pseudomonas aeruginosa
Hydrocarbons	Salmonella enteritidis
Ketones	Bacillus cereus
Household cleaning agents	Streptococcus faecalis
	Klebsiella pneumoniae
	Aspergillus niger
	Penicillium purpurogenum
	Phoma violacea
	Saccharmyces cerevisiae



Ex i keyboard with touch pad EXTA4-*1-**-K4* (2024 Generation)

- Degree of protection: IP66
- Stainless steel housing
- National layout variants available for US, GER and FR
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in Zone 1/21 and Zone 2/22 hazardous areas
- USB interface with USB cable

Ex i keyboard with touch pad



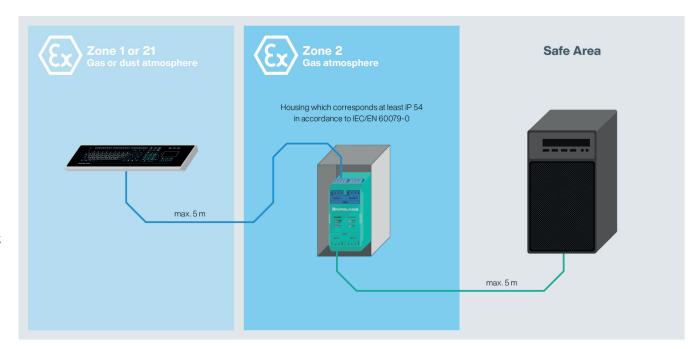


Function

EXTA4-* is an intrinsically safe keyboard with touchpad (EXTA4-*1-**-K4*), joystick (EXTA4-*1-**-K6*) or optical trackball (EXTA4-*1-**-K8*). The interfaces of mouse and keyboard are included in one IS-Circuit. The Circuit is lead trough in one connecting cable (connecting cable is included in delivery). The keyboards are designed for panel mounting or for installation in a housing.

The EXTA4-* is designed as accessory for the Pepperl+Fuchs Workstations VisuNet GXP and VisuNet FLX but can be used as stand-alone keyboard in combination with the available barriers as well.

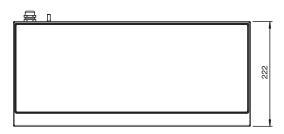
Function Principle



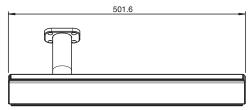
Desktop housing

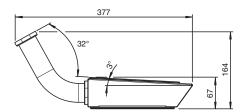


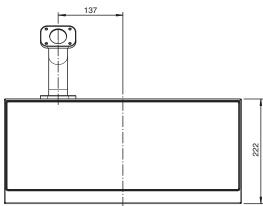




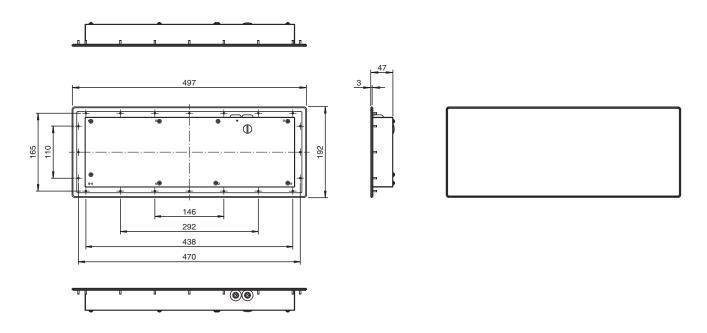
Standard housing with mounting options – sample VisuNet GXP One-Arm Installation







Panel Mounting



Technical Data

General specifications		
Type		Keyboard with touch pad
Suitable components		SK-PC-Z1D1-UU1-10-HS
Supply		
Rated voltage	U _r	Ex i, via data line
Indicators/operating means		
Keyboard		105 short stroke keys Keyboard layout: US international, German, French
Touchpad		
Active Principle		Capacitive
Resolution		10 Pts/mm x 10 Pts/mm
Dimensions		66 x 50
Interface		
Interface type		USB
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2021 (Ind loc) EN 61000-6-4:2007+A1:2011 EN 55011:2016+A11:2020 (Class B)
Explosion protection		
Directive 2014/34/EU		EN IEC 60079-0:2018 EN 60079-11:2012
RoHS		
Directive 2011/65/EU (RoHS)		EN IEC 63000:2018-12
Conformity		
Degree of protection		IP66
Ambient conditions		
Ambient temperature		-20 50 °C (-4 122 °F)
Storage temperature		-20 70 °C (-4 158 °F)
Relative humidity		max. 85 %, non-condensing
Mechanical specifications		

Technical Data

Material	anodized aluminum, stainless steel (F1- Mounting Option), Polyester foil
Mass	1.2 kg (without housing)
Dimensions	502 mm x 222 mm x 66 mm
Cut out dimensions	450 mm x 152 mm
Cable length	5 m / 2 m / 1 m
Data for application in connection with haza	rdous areas
EU-type examination certificate	Zone 1/21 BVS 07 ATEX E 163 X
	Zone 2/22 BVS 21 ATEX E 009 X
Marking	Zone 1/21 © II 2G Ex ib IIC T4 Gb © II 2D Ex ib IIIB T135°C Db
	Zone 2/22
International approvals	
IECEx approval	
IECEx certificate	Zone 1/21 IECEx BVS 08.0022X
	Zone 2/22 IECEx BVS 08.0022X
IECEx marking	Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIB T135°C Db
	Zone 2/22 Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc

Type Code

EXTA4-*

EXTA4-	(1)-	(2)-	K(3)	(4)-	U(5)	(6)-	(7)-	(8)

Model	
EXTA4-	Short travel foil keyboard for use in explosion hazardous environments - standard option

(1)-	explosion protection			
N1-	Industrial, general purpose (non-ex)			
J1-	ATEX & IECEx Zone 1/21			
L1-	ATEX & IECEx Zone 2/22			

(2)-	Housings				
NN-	housing, panel mounting				
F1-	andard housing with mounting options				
F2-	Pharma housing with mounting options				
T1-	Desktop housing				

K(3)	Mouse Options
K4	Capacitive touchpad
K6	Joystick
K8	Optical trackball

(4)-	eyboard Layouts					
US0- US-International Layout (QWERTY)						
DE0- German Layout (QWERTZ)						
FR0-	FR0- French Layout (AZERTY)					
xxx-	Other languages on request [place holder option for other languages]					

U(5)	Cable Length						
U10	1 m cable length (preferred for GXP and FLX) [only for housing options "NN", "F1" and "F2", not for "T1"]						
U20	2 m cable length (preferred option for AG1 housing)						
U50 5 m cable length (preferred for Desktop housing option) [only for housing options "NN" and "T1", not for "F1" and "F2"]							

Type Code

(6)-	Connectors
C1-	Cable end with crimped ferrules (e.g. to connect to VisuNet GXP or Barrier) - standard option
U1-	USB type A male connector (e.g. to connect to VisuNet FLX) - standard option

(7)-	Mounting Options						
NP-	Panel mounting [only for housing option "NN"]						
T1-	No mounting option - Desktop housing [only for housing options "T1" AND cable length "U20" or "U50"]						
G1-	GXP One-Arm installation to AG-XX00 - standard option [only for housing option "F1" AND cable length "U10" AND connector "C1"]						
G2-	GXP Double-Arm installation to AG1 - standard option [only for housing option "F1" AND cable length "U20" AND connector "C1"]						
F1-	VisuNet FLX one-arm installation to AG-XX00 [only for housing option "F2" AND cable length "U10" AND connector "U1"]						
H1-	Hinged version for VisuNet FLX - standard option [only for housing option "F1" AND cable length "U10" AND connector "U1"]						
C1-	Cabinet / horizontal installation on vertical housing (wall mounting) - standard option [only for housing option "F1" AND cable length "U20" AND connector "U1"]						

(8)	Options					
N0	Standard, no options - standard option [standard option & preferred]					
U0	UV-resistant front foil for outdoor use					

Example:

_								
EXTA4-	N1-	NN-	K4	US0-	U10	C1-	NP-	N0

Additional Information

Chemical resistance of keyboard foil

The keyboard foil is manufactured from a biaxially aligned polyester-based material and therefore has a greater resistance to solvents. The foil is stronger and more durable than other standard foils used on keyboards and front panels, such as polycarbonate and PVC.

The keyboard foil is resistant against the following substances: (Test methode: DIN42115)	The foil passed the anti microbial effectiveness tested with: (Test method: AATCC Test method 100)
Alcohols	Staphyloccus aureus (MRSA)
Dilute acids	Escherichia coli 0157
Dilute alkalis	Listeria monocytogenes
Esters	Pseudomonas aeruginosa
Hydrocarbons	Salmonella enteritidis
Ketones	Bacillus cereus
Household cleaning agents	Streptococcus faecalis
	Klebsiella pneumoniae
	Aspergillus niger
	Penicillium purpurogenum
	Phoma violacea
	Saccharmyces cerevisiae



Ex i keyboard with joystick EXTA4-*1-**-K6* (2024 Generation)

- Degree of protection: IP66 (housing), IP65 (joystick)
- Stainless steel housing
- National layout variants available for US, GER and FR
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in Zone 1/21 and Zone 2/22 hazardous areas
- USB interface with USB cable

Ex i keyboard with joystick





Function

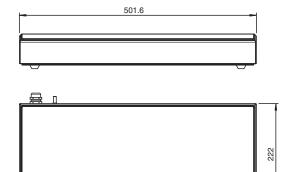
EXTA4-* is an intrinsically safe keyboard with touchpad (EXTA4-*1-**-K4*), joystick (EXTA4-*1-**-K6*) or optical trackball (EXTA4-*1-**-K8*). The interfaces of mouse and keyboard are included in one IS-Circuit. The Circuit is lead trough in one connecting cable (connecting cable is included in delivery). The keyboards are designed for panel mounting or for installation in a housing.

The EXTA4-* is designed as accessory for the Pepperl+Fuchs Workstations VisuNet GXP and VisuNet FLX but can be used as stand-alone keyboard in combination with the available barriers as well.

Function Principle

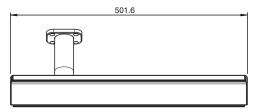


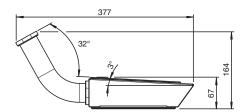
Desktop housing

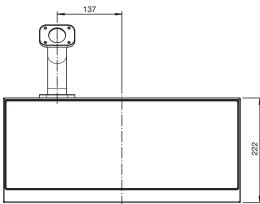




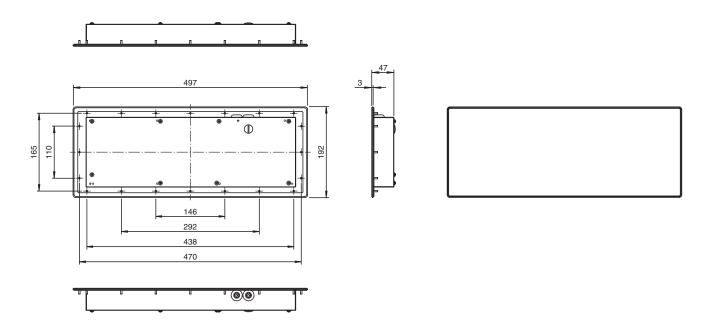
Standard housing with mounting options – sample VisuNet GXP One-Arm Installation







Panel Mounting



Technical Data

General specifications				
Туре		Keyboard with joystick		
Suitable components		SK-PC-Z1D1-UU1-10-HS		
Supply				
Rated voltage	U _r	Ex i, via data line		
Indicators/operating means				
Keyboard		105 short stroke keys Keyboard layout: US international, German, French		
Interface				
Interface type		USB		
Directive conformity				
Electromagnetic compatibility				
Directive 2014/30/EU		EN 61326-1:2021 (Ind loc) EN 61000-6-4:2007+A1:2011 EN 55011:2016+A11:2020 (Class B)		
Explosion protection				
Directive 2014/34/EU		EN IEC 60079-0:2018 EN 60079-11:2012		
RoHS				
Directive 2011/65/EU (RoHS)		EN IEC 63000:2018-12		
Conformity				
Degree of protection		IP65		
Ambient conditions				
Ambient temperature		-20 50 °C (-4 122 °F)		
Storage temperature		-20 70 °C (-4 158 °F)		
Relative humidity		max. 85 %, non-condensing		
Mechanical specifications				
Material		anodized aluminum, stainless steel (F1- Mounting Option), Polyester foil		
Mass		1.2 kg (without housing)		
Dimensions		502 mm x 222 mm x 66 mm		
Cut out dimensions		450 mm x 152 mm		

Cable length	5 m / 2 m / 1 m			
Data for application in connection with hazardous areas				
EU-type examination certificate	Zone 1/21 BVS 07 ATEX E 163 X			
	Zone 2/22 BVS 21 ATEX E 009 X			
Marking	Zone 1/21 © II 2G Ex ib IIC T4 Gb © II 2D Ex ib IIIB T135°C Db			
	Zone 2/22			
International approvals				
IECEx approval				
IECEx certificate	Zone 1/21 IECEx BVS 08.0022X			
	Zone 2/22 IECEx BVS 08.0022X			
IECEx marking	Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIB T135°C Db			
	Zone 2/22 Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc			
Type Code				

EXTA4-*

EXTA4-	(1)-	(2)-	K(3)	(4)-	0(3)	(0)-	(1)-	(8)
Model								

EXTA4-	Short travel foil keyboard for use in explosion hazardous environments - standard option
(1)-	Explosion protection
N14	ladicatifal assessed accompany (new acc)

(1)	Explosion proteotion
N1-	Industrial, general purpose (non-ex)
J1-	ATEX & IECEx Zone 1/21
L1-	ATEX & IECEx Zone 2/22

(2)-	Housings
NN-	No housing, panel mounting
F1-	Standard housing with mounting options
F2-	Pharma housing with mounting options
T1-	Desktop housing

K(3)	Mouse Options
K4	Capacitive touchpad
K6	Joystick
K8	Optical trackball

(4)-	Keyboard Layouts
US0-	US-International Layout (QWERTY)
DE0-	German Layout (QWERTZ)
FR0-	French Layout (AZERTY)
xxx-	Other languages on request [place holder option for other languages]

U(5)	Cable Length
U10	1 m cable length (preferred for GXP and FLX) [only for housing options "NN", "F1" and "F2", not for "T1"]
U20	2 m cable length (preferred option for AG1 housing)
U50	5 m cable length (preferred for Desktop housing option) [only for housing options "NN" and "T1", not for "F1" and "F2"]

(6)-	Connectors
C1-	Cable end with crimped ferrules (e.g. to connect to VisuNet GXP or Barrier) - standard option
U1-	USB type A male connector (e.g. to connect to VisuNet FLX) - standard option

(7)-	Mounting Options
NP-	Panel mounting [only for housing option "NN"]

Type Code

(7)-	Mounting Options
T1-	No mounting option - Desktop housing [only for housing options "T1" AND cable length "U20" or "U50"]
G1-	GXP One-Arm installation to AG-XX00 - standard option [only for housing option "F1" AND cable length "U10" AND connector "C1"]
G2-	GXP Double-Arm installation to AG1 - standard option [only for housing option "F1" AND cable length "U20" AND connector "C1"]
F1-	VisuNet FLX one-arm installation to AG-XX00 [only for housing option "F2" AND cable length "U10" AND connector "U1"]
H1-	Hinged version for VisuNet FLX - standard option [only for housing option "F1" AND cable length "U10" AND connector "U1"]
C1-	Cabinet / horizontal installation on vertical housing (wall mounting) - standard option [only for housing option "F1" AND cable length "U20" AND connector "U1"]

(8)	Options
N0	Standard, no options - standard option [standard option & preferred]
U0	UV-resistant front foil for outdoor use

Example:

_									
	EXTA4-	N1-	NN-	K4	US0-	U10	C1-	NP-	N0

Additional Information

Chemical resistance of keyboard foil

The keyboard foil is manufactured from a biaxially aligned polyester-based material and therefore has a greater resistance to solvents. The foil is stronger and more durable than other standard foils used on keyboards and front panels, such as polycarbonate and PVC.

The keyboard foil is resistant against the following substances: (Test methode: DIN42115)	The foil passed the anti microbial effectiveness tested with: (Test method: AATCC Test method 100)
Alcohols	Staphyloccus aureus (MRSA)
Dilute acids	Escherichia coli 0157
Dilute alkalis	Listeria monocytogenes
Esters	Pseudomonas aeruginosa
Hydrocarbons	Salmonella enteritidis
Ketones	Bacillus cereus
Household cleaning agents	Streptococcus faecalis
	Klebsiella pneumoniae
	Aspergillus niger
	Penicillium purpurogenum
	Phoma violacea
	Saccharmyces cerevisiae



Ex i keyboard with optical trackball EXTA4-*1-**-K8* (2024 Generation)

- Degree of protection: IP66
- Stainless steel housing
- National layout variants available for US, GER and FR
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in Zone 1/21 and Zone 2/22 hazardous areas
- USB interface with USB cable

Ex i keyboard with optical trackball



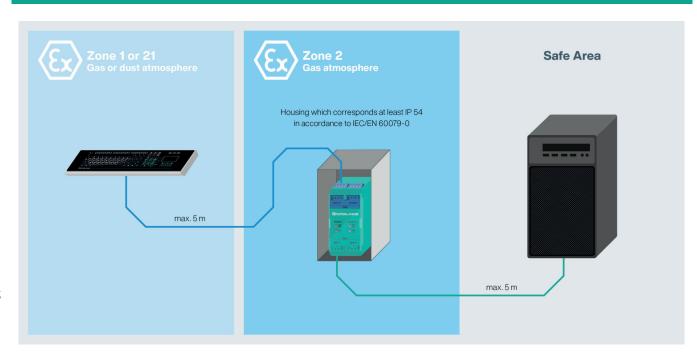


Function

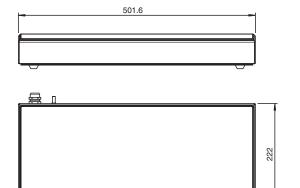
EXTA4-* is an intrinsically safe keyboard with touchpad (EXTA4-*1-**-K4*), joystick (EXTA4-*1-**-K6*) or optical trackball (EXTA4-*1-**-K8*). The interfaces of mouse and keyboard are included in one IS-Circuit. The Circuit is lead trough in one connecting cable (connecting cable is included in delivery). The keyboards are designed for panel mounting or for installation in a housing.

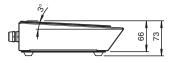
The EXTA4-* is designed as accessory for the Pepperl+Fuchs Workstations VisuNet GXP and VisuNet FLX but can be used as stand-alone keyboard in combination with the available barriers as well.

Function Principle

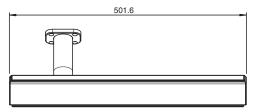


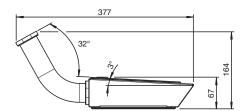
Desktop housing

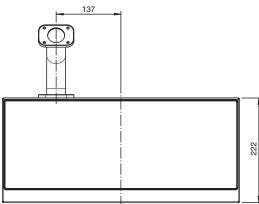




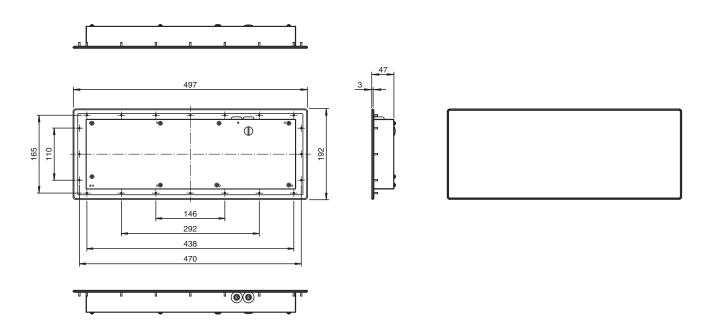
Standard housing with mounting options – sample VisuNet GXP One-Arm Installation







Panel Mounting



Technical Data

General specifications		
Туре		Keyboard with optical trackball
Suitable components		SK-PC-Z1D1-UU1-10-HS
Supply		
Rated voltage	U _r	Ex i, via data line
Indicators/operating means		
Keyboard		105 short stroke keys Keyboard layout: US international, German, French
Trackball		
Diameter		50 mm
Material		PROX resin (metallic grey)
Interface		
Interface type		USB
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2021 (Ind loc) EN 61000-6-4:2007+A1:2011 EN 55011:2016+A11:2020 (Class B)
Explosion protection		
Directive 2014/34/EU		EN IEC 60079-0:2018 EN 60079-11:2012
RoHS		
Directive 2011/65/EU (RoHS)		EN IEC 63000:2018-12
Conformity		
Degree of protection		IP66 in full operation (dynamic)
Ambient conditions		
Ambient temperature		0 50 °C (32 122 °F)
Storage temperature		-20 70 °C (-4 158 °F)
Relative humidity		max. 85 % , non-condensing
Mechanical specifications		
Material		anodized aluminum, stainless steel (F1- Mounting Option), Polyester foil

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Mass 1.2 kg (without housing) **Dimensions** 502 mm x 222 mm x 66 mm 450 mm x 152 mm Cut out dimensions Cable length 5 m / 2 m / 1 m Data for application in connection with hazardous areas Zone 1/21 BVS 07 ATEX E 163 X EU-type examination certificate Zone 2/22 BVS 21 ATEX E 009 X Zone 1/21 Il 2G Ex ib IIC T4 Gb Il 2D Ex ib IIIB T135°C Db Marking Zone 2/22 Il 3G Ex ic IIC T4 Gc Il 3D Ex ic IIIB T135°C Dc International approvals IECEx approval IECEx certificate Zone 1/21 IECEx BVS 08.0022X Zone 2/22 IECEx BVS 08.0022X Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIB T135°C Db IECEx marking Zone 2/22 Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc

Type Code

EXTA4-*

EXTA4-	(1)-	(2)-	K(3)	(4)-	U(5)	(6)-	(7)-	(8)
Model								
FXTA4-	FXTA4- Short travel foil keyboard for use in explosion hazardous environments - standard option							

(1)-	Explosion protection
N1-	Industrial, general purpose (non-ex)
J1-	ATEX & IECEx Zone 1/21
I 1-	ATEX & IFCEx Zone 2/22

(2)-	Housings
NN-	No housing, panel mounting
F1-	Standard housing with mounting options
F2-	Pharma housing with mounting options
T1-	Desktop housing

K(3)	Mouse Options
K4	Capacitive touchpad
K6	Joystick
K8	Optical trackball

(4)-	Keyboard Layouts
US0-	US-International Layout (QWERTY)
DE0-	German Layout (QWERTZ)
FR0-	French Layout (AZERTY)
ххх-	Other languages on request [place holder option for other languages]

U(5)	Cable Length		
U10	1 m cable length (preferred for GXP and FLX) [only for housing options "NN", "F1" and "F2", not for "T1"]		
U20	2 m cable length (preferred option for AG1 housing)		
U50	5 m cable length (preferred for Desktop housing option) [only for housing options "NN" and "T1", not for "F1" and "F2"]		

(6)-	-	Connectors
C1-	-	Cable end with crimped ferrules (e.g. to connect to VisuNet GXP or Barrier) - standard option

Type Code

(6)-	Connectors
U1-	USB type A male connector (e.g. to connect to VisuNet FLX) - standard option

(7)-	Mounting Options
NP-	Panel mounting [only for housing option "NN"]
T1-	No mounting option - Desktop housing [only for housing options "T1" AND cable length "U20" or "U50"]
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F1-	VisuNet FLX one-arm installation to AG-XX00 [only for housing option "F2" AND cable length "U10" AND connector "U1"]
H1-	Hinged version for VisuNet FLX - standard option [only for housing option "F1" AND cable length "U10" AND connector "U1"]
C1-	Cabinet / horizontal installation on vertical housing (wall mounting) - standard option [only for housing option "F1" AND cable length "U20" AND connector "U1"]

(8)	Options
N0	Standard, no options - standard option [standard option & preferred]
U0	UV-resistant front foil for outdoor use

Example:

EXTA4-	N1-	NN-	K4	US0-	U10	C1-	NP-	N0

Additional Information

Chemical resistance of keyboard foil

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Dilute acids	Escherichia coli 0157
Dilute alkalis	Listeria monocytogenes
Esters	Pseudomonas aeruginosa
Hydrocarbons	Salmonella enteritidis
Ketones	Bacillus cereus
Household cleaning agents	Streptococcus faecalis
	Klebsiella pneumoniae
	Aspergillus niger
	Penicillium purpurogenum
	Phoma violacea
	Saccharmyces cerevisiae

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